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SERVICE MANUAL

Product Type:	PLASMA
Chassis:	RF-043A
Manual Series:	
Manual Part #:	
Model Line:	
Product Year:	2004

Model Series:

P42W46X
P42W46XH

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PRODUCT SAFETY GUIDELINES

IMPORTANT SAFETY NOTICE

This manual was prepared for use only by properly trained audio-visual service technicians.

When servicing this product, under no circumstances should the original design be modified or altered without permission from Zenith Electronics Corporation. All components should be replaced only with types identical to those in the original circuit and their physical location, wiring and lead dress must conform to original layout upon completion of repairs.

CAUTION: Do not attempt to modify this product in any way.
Never perform customized installations without manufacturer's approval.
Unauthorized modifications will not only void the warranty, but may lead to property damage or user injury.

Service work should be performed only after you are thoroughly familiar with these safety checks and servicing guidelines.

GRAPHIC SYMBOLS

The exclamation point within an equilateral triangle is intended to alert the service personnel to important safety information in the service literature.

The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the service personnel to the presence of noninsulated "dangerous voltage" that may be of sufficient magnitude to constitute a risk of electric shock.

The pictorial representation of a fuse and its rating within an equilateral triangle is intended to convey to the service personnel the following fuse replacement caution notice:

CAUTION: FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ALL FUSES WITH THE SAME TYPE AND RATING AS MARKED NEAR EACH FUSE.

SERVICE INFORMATION

While servicing, use an isolation transformer for protection from AC line shock. After the original service problem has been corrected, make a check of the following:

FIRE AND SHOCK HAZARD

1. Be sure that all components are positioned to avoid a possibility of adjacent component shorts. This is especially important on items transported to and from the repair shop.
2. Verify that all protective devices such as insulators, barriers, covers, shields, strain reliefs, power supply cords, and other hardware have been reinstalled per the original design. Be sure that the safety purpose of the polarized line plug has not been defeated.
3. Soldering must be inspected to discover possible cold solder joints, solder splashes, or sharp solder points. Be certain to remove all loose foreign particles.
4. Check for physical evidence of damage or deterioration to parts and components, for frayed leads or damaged insulation (including the AC cord), and replace if necessary.
5. No lead or component should touch a receiving tube or a resistor rated at 1 watt or more. Lead tension around protruding metal surfaces must be avoided.
6. After reassembly of the set, always perform an AC leakage test on all exposed metallic parts of the cabinet (the channel selector knobs, antenna terminals, handle and screws) to be sure that set is safe to operate without danger of electrical shock. DO NOT USE A LINE ISOLATION TRANSFORMER DURING THIS TEST. Use an AC voltmeter having 5000 ohms per volt or more sensitivity in the following manner: Connect a 1500 ohm, 10 watt resistor, paralleled by a .15 mfd 150V AC type capacitor between a known good earth ground water pipe, conduit, etc.) and the exposed metallic parts, one at a time.
   Measure the AC voltage across the combination of 1500 ohm resistor and .15 mfd capacitor. Reverse the AC plug by using a non-polarized adaptor and repeat AC voltage measurements for each exposed metallic part. Voltage measured must not exceed 0.75 volts RMS. This corresponds to 0.5 milliamp AC. Any value exceeding this limit constitutes a potential shock hazard and must be corrected immediately.

TIPS ON PROPER INSTALLATION

1. Never install any receiver in a closed-in recess, cubbyhole, or closely fitting shelf space over, or close to, a heat duct, or in the path of heated air flow.
2. Avoid conditions of high humidity such as: outdoor patio installations where dew is a factor, near steam radiators where steam leakage is a factor, etc.
3. Avoid placement where draperies may obstruct venting. The customer should also avoid the use of decorative scarves or other coverings that might obstruct ventilation.
4. Wall- and shelf-mounted installations using a commercial mounting kit must follow the factory-approved mounting instructions. A product mounted to a shelf or platform must retain its original feet (or the equivalent thickness in spacers) to provide adequate air flow across the bottom. Bolts or screws used for fasteners must not touch any parts or wiring. Perform leakage tests on customized installations.
5. Caution customers against mounting a product on a sloping shelf or in a tilted position, unless the receiver is properly secured.
6. A product on a roll-about cart should be stable in its mounting to the cart. Caution the customer on the hazards of trying to roll a cart with small casters across thresholds or deep pile carpets.
7. Caution customers against using a cart or stand that has not been listed by Underwriters Laboratories, Inc. for use with its specific model of television receiver or generically approved for use with TVs of the same or larger screen size.
8. Caution customers against using extension cords. Explain that a forest of extensions, sprouting from a single outlet, can lead to disastrous consequences to home and family.

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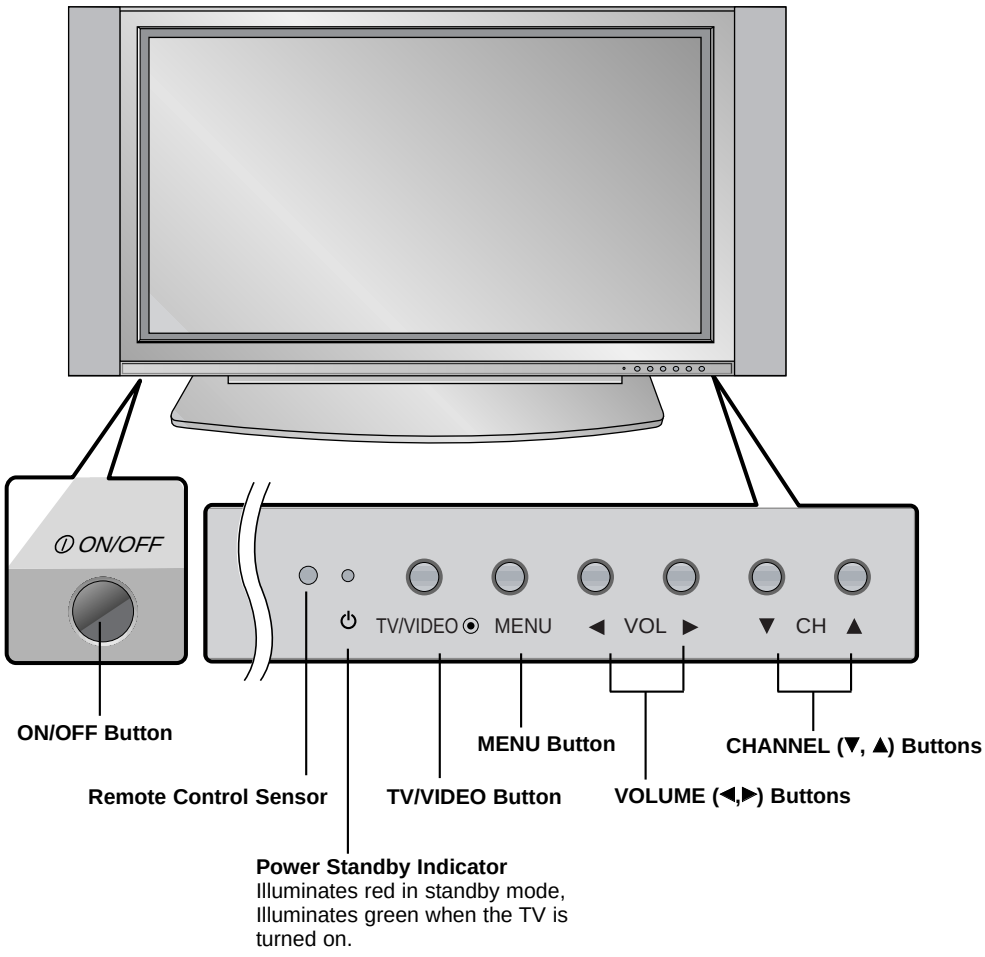
SCHEMATIC DIAGRAM.....

PRINTED CIRCUIT BOARD .....

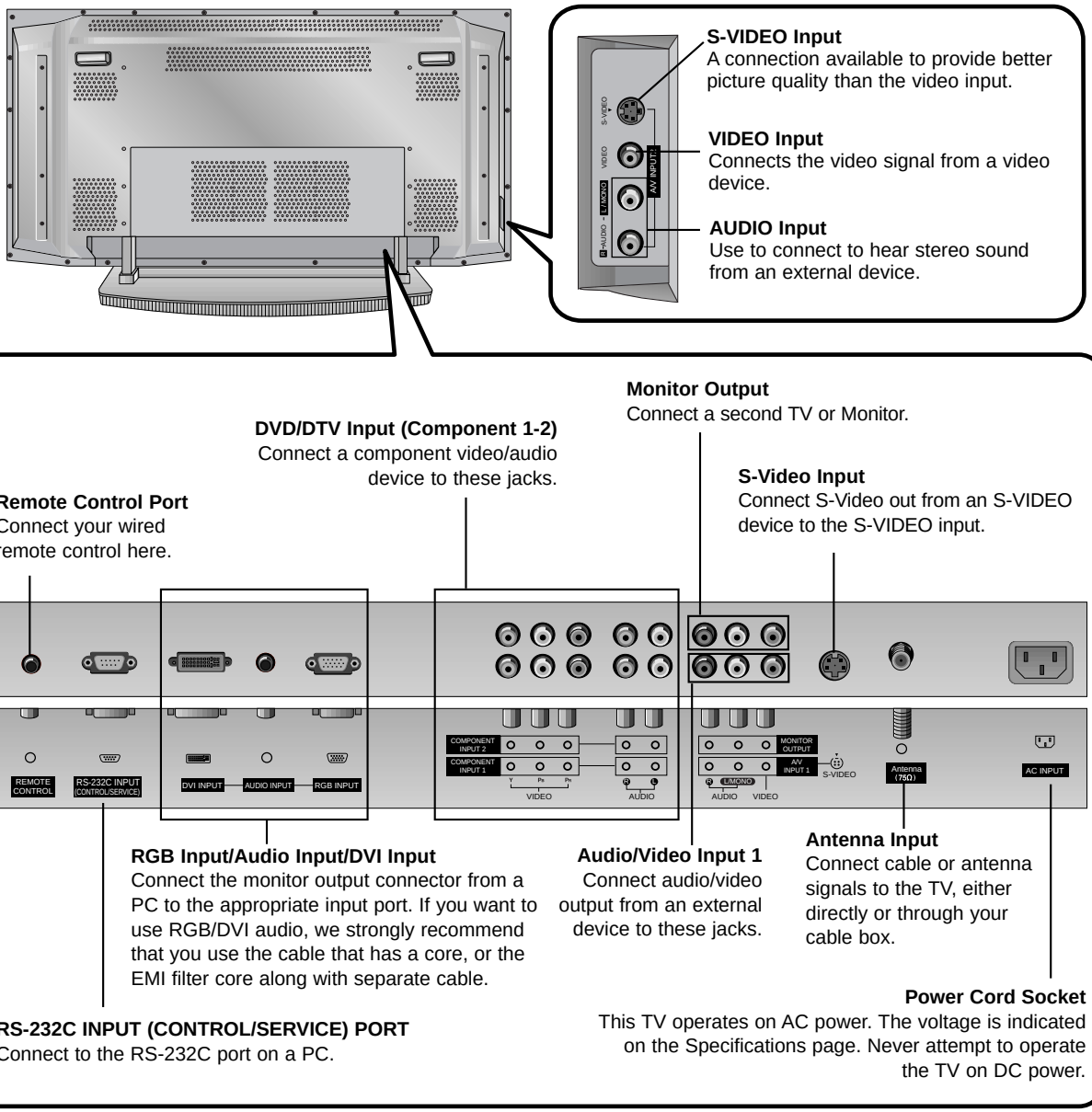
Controls

- This is a simplified representation of front panel.
  Here shown may be somewhat different from your TV.
- This manual explains the features available on the P42W46X.

Front Panel Controls

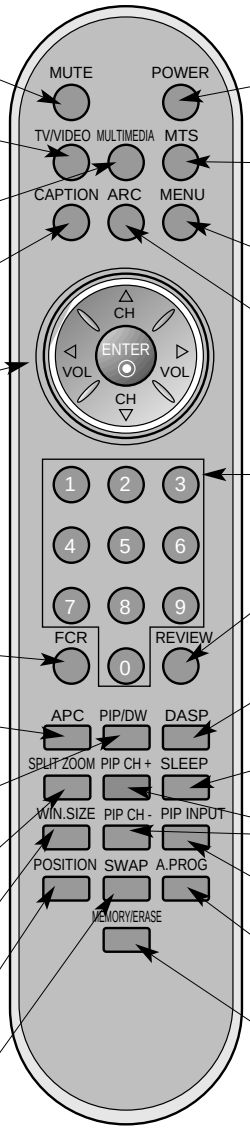


Connection Options


S-VIDEO Input
A connection available to provide better picture quality than the video input.
VIDEO Input
Connects the video signal from a video device.
AUDIO Input
Use to connect to hear stereo sound from an external device.
S-VIDEO
VIDEO
MONO
AUDIO
A/V INPUT 1
Monitor Output
Connect a second TV or Monitor.
DVD/DTV Input (Component 1-2)
Connect a component video/audio device to these jacks.
S-Video Input
Connect S-Video out from an S-VIDEO device to the S-VIDEO input.
Remote Control Port
Connect your wired remote control here.
REMOTE CONTROL
RS-232C INPUT (CONTROL/SERVICE)
DVI INPUT
AUDIO INPUT
RGB INPUT
COMPONENT INPUT 2
COMPONENT INPUT 1
VIDEO
AUDIO
MONITOR OUTPUT
A/V INPUT 1
S-VIDEO
L/MONO
AUDIO
VIDEO
Antenna (75Ω)
AC INPUT
RGB Input/Audio Input/DVI Input
Connect the monitor output connector from a PC to the appropriate input port. If you want to use RGB/DVI audio, we strongly recommend that you use the cable that has a core, or the EMI filter core along with separate cable.
Audio/Video Input 1
Connect audio/video output from an external device to these jacks.
Antenna Input
Connect cable or antenna signals to the TV, either directly or through your cable box.
RS-232C INPUT (CONTROL/SERVICE) PORT
Connect to the RS-232C port on a PC.
Power Cord Socket
This TV operates on AC power. The voltage is indicated on the Specifications page. Never attempt to operate the TV on DC power.

Remote Control Key Functions

- When using the remote control, aim it at the remote control sensor on the TV.



MUTE
Switches the sound on or off.

TVVIDEO
Selects: TV, Video 1-2, Component 1-2, RGB, and DVI input sources.

MULTIMEDIA
Selects: Component 1-2, RGB, and DVI input sources.

CAPTION
Selects CAPTION mode.

VOLUME UP/DOWN
Increases/decreases the sound level. Selects a menu item.

CHANNEL UP/DOWN
Selects available channels found with Auto program. Adjusts menu settings.Switches the set on from standby.

ENTER
Accepts your selection or displays the current mode.

FCR
Use to scroll the favorite channel list.

APC
Adjusts the factory preset picture according to the room.

PIP/DW
Switches between PIP and Double Window modes.

SPLIT ZOOM
Enlarges the picture with regular ration.

WIN. SIZE
Adjusts the sub picture size.

POSITION
Moves the sub picture in pip mode.

SWAP
Exchanges the main/sub images.

POWER
Turns your TV on or off.

MTS
Selects the MTS sound: **Mono**, **Stereo**, or **SAP**.

MENU
Brings up the main menu to the screen.

ARC
Changes the picture format.

NUMBER buttons

REVIEW
Tunes to the last channel viewed.

DASP
Selects the sound appropriate for the program's character.

SLEEP
Sets the sleep timer.

PIPCH-/PIPCH+
Changes to next lower/higher PIP channel.

PIP INPUT
Selects the input source for the sub picture.

A.PROG (AUTO PROGRAM)
Searches for available channels.

MEMORY/ERASE
Memorizes or erases selected channel.

SPECIFICATIONS

MODEL	P42W46X
Width (inches / mm)	48.4 / 1210
Height (inches / mm)	27.6 / 701
Depth (inches / mm)	11.4 / 290
Weight (pounds / kg)	66 / 22.9
Resolution	852 x 480 (Dot)
Power requirement	AC100-240V, 60Hz
Television System	NTSC
Program Coverage	VHF 2 ~ 13, UHF 14 ~ 69, CATV 1 ~ 125
External Antenna Impedance	75 Ω
Color	16,770,000 (256 steps of each R, G and B)
Operating Temperature Range	32 ~ 104°F (0 ~ 40°C)
Operating Humidity Range	Less than 80%
Maximum Elevation	6561 feet (2000m)

- The specifications shown above may be changed without notice for quality improvement.

ADJUSTMENT INSTRUCTIONS

1. Application Object

These instructions apply to the RF-043A Chassis.

2. Specification

(1) Because this is not a hot chassis, it is not necessary to use an isolation transformer. However, the use of isolation transformer will help protect test instrument.
(2) Adjustment must be done in the correct order.
(3) The adjustment must be performed in the circumstance of 25±5°C of temperature and 65±10% of relative humidity if there is no specific designation.
(4) The input voltage of the receiver must keep 100~220V, 50/60Hz.
(5) The receiver must be operated for about 15 minutes prior to the adjustment.

● After RGB Full white HEAT-RUN Mode, the receiver must be operated prior to adjustment.
● Enter into HEAT-RUN MODE
1) Press the POWER ON KEY on R/C for adjustment.
2) OSD display and screen display 100% full WHITE PATTERN.

※ Set is activated HEAT-RUN without signal generator in this mode.
※ Single color pattern(RED/BLUE/GREEN) of HEAT-RUN mode uses to check PANEL.

Caution) If you turn on a still screen more than 20 minutes (Especially digital pattern, cross hatch pattern), a after image may be occur in the black level part of the screen.

3. Channel memory

3-1. Setting up the G-prove

(Fig 1)

(1) Install the GProve. (GProve4.4.0.2.exe)
(2) After installing the Gprobe, [Option -> Connection Setup] or click the icon indicated in the picture and then setup as below the picture.
(In case of the port (second one), set to the serial port of the connected PC.
The other only have to be set as below the picture.)
(3) After finishing inputs, click the button [OK] to complete the connection setup.

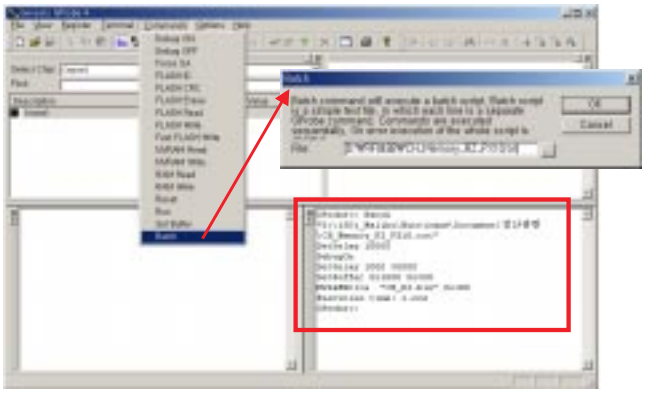
3-2. Confirming the G-prove

(1) Connect Rs232 cable and then turn on the power.
If communication is correct, the message is showed like in the left output terminal.
(2) If the message is not showed, push the [INSTART] button of the adjust remocon twice, and change the right selection of the [System Control -> RS-232 Host] from GProbe to PC.
** If it is impossible to check the OSD, push the [TILT] button of the adjust remocon.
Then, the message which is “Starting Gprove...” comes up. From this time, communication is operated correctly.
However, you have to push the [TILT] button again in case of turning on Main Power.
** If you want to check again whether commnunication is on or not, input “test” and push the Enter key on the right input terminal. If communication is on, the message of “Test passed.” will come up

(Fig 2)

3-3. Channel memory method

(1) Click [Command -> Batch].
(2) When the window of [Batch] is showed, enter the text file (Ch_Memory-RZ_PX10.txt) in the right blank of the File.
(3) Click the button [OK] to write CH information in the EEPROM.
(4) It means the completion of the CH memory download that the message of right output terminal is showed as below.



(Fig 3)

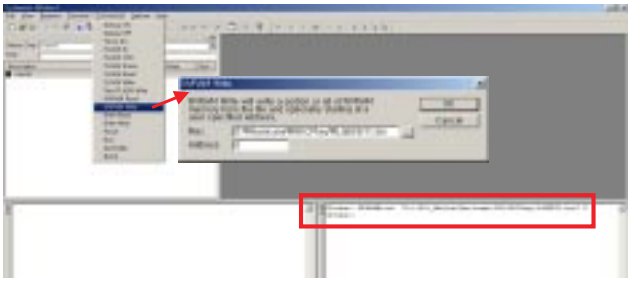
4. HDCP download

4-1. Setting up & Confirming the G-prove

: Refer to 3-1 and 3-2.

4-2. HDCP download method

(1) Click [Command -> NVRAM Write]
(2) When the window of [NVRAM Write] is showed, select "LGEKEY1.bin" to insert fill up in the File.
(3) LGEKEY1 : first KEY value
(4) Address : insert '0'
(5) After finishing inputs, click the button [OK] to write HDCP key in the EEPROM.
(6) It means the end of the HDCP key download that the message of Output terminal is showed as below.



(Fig 4)

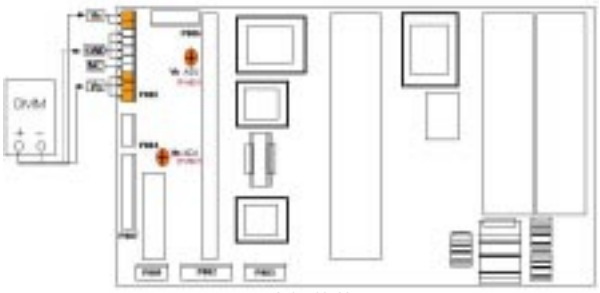
Each PCB assembly must be checked by check JIG set. (Because power PCB Assembly damages to PDP Module, especially be careful)

5. POWER PCB Assy Voltage Adjustments (Va, Vs Voltage Adjustments)

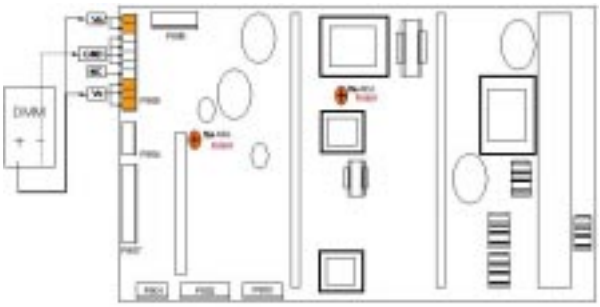
5-1. Test Equipment : D.M.M. 1EA

5-2. Connection Diagram for Measuring

Refer to Fig 5.



< 3501V00180A >



< 3501V00182A >

(Fig 5) Connection Diagram of power adjustment for measuring

5-3. Adjustment Method for P/No. 3501V00180A B/D

(1) Va Adjustment

1) After receiving 100% Full White Pattern, HEAT RUN.
2) Connect + terminal of D.M.M to Va pin of P805, connect - terminal to GND pin of P805.
3) After turning RV501, voltage of D.M.M adjustment as same as Va voltage which on lable of panel right/top (Deviation; ±0.5V)

(2) Vs Adjustment

1) Connect + terminal of D.M.M to Vs pin of P805, connect – terminal to GND pin of P805.

2) After turning RV401, voltage of D.M.M adjustment as same as Va voltage which on label of panel right/top. (Deviation; ±0.5V)

5-4. Adjustment Method for P/No. 3501V00182A B/D

(1) Va Adjustment

1) After receiving 100% Full White Pattern, HEAT RUN.
2) Connect + terminal of D.M.M to Va pin of P805, connect - terminal to GND pin of P805.
3) After turning RV601, voltage of D.M.M adjustment as same as Va voltage which on lable of panel right/top (Deviation; ±0.5V)

(2) Vs Adjustment

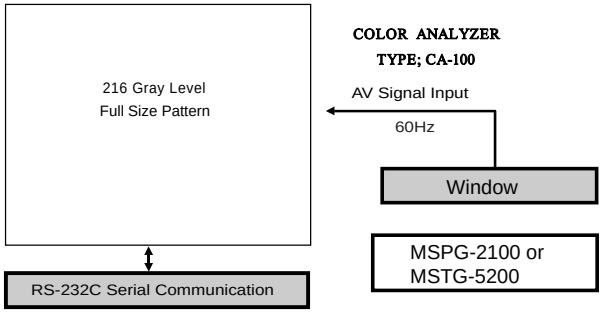
1) Connect + terminal of D.M.M to Vs pin of P805, connect – terminal to GND pin of P805.
2) After turning RV401, voltage of D.M.M adjustment as same as Va voltage which on label of panel right/top. (Deviation; ±0.5V)

6. Adjustment of White Balance

6-1. Required Equipment

Color Analyzer (CA-100 or same product)

6-2. Connection Diagram of Equipment for Measuring



(Fig 6) White Balance Adjustment

6-3. Adjustment of White Balance

- Operate the Zero-calibration of the CA-100, then stick sensor to PDP module surface when you adjust.
- For manual adjustment, it is also possible by the following sequence.

(1) Select white pattern of heat-run mode by pressing power on key on remote control for adjustment then operate heat run more than 15 minutes.

(2) Supply Gray Pattern (216 Level Full Size Pattern) signal to VIDEO input. (AV2 Input 60Hz)
(Refer to Fig. 6)

(3) To adjust, stick sensor to 216 Gray Level Pattern, press ADJ key twice(White Balance) on remote control.
For adjustment and ▲, ▼ on reomte control for adjustment mode to select Red Gain and Blue Gain, press VOL +, - Key and adjust it until color coordination becomes as below.

X; 0.283±0.003, Y; 0.297±0.003
Color Temperature; 9,300°K±500°K

(4) Exit adjustment mode using ■ Key.

7. Auto RGB Color Balance

7-1. Pattern Equipment

PC Pattern Generator (VG828, VG854, 801GF, MSP3240A)
(16 Gray Scale Pattrtn output(RGB output Level: 0.7Vp-p)

7-2. Method of Auto RGB Color Balance

(1) Input RGB Source : 16 Gray Scale Pattern output (RGB output Level : 0.7Vp-p)
(2) Press ADJ KEY on R/C for adjustment.
(3) Press Vol. + KEY and operate To SET.
(4) Auto-RGB OK means completed adjustment.

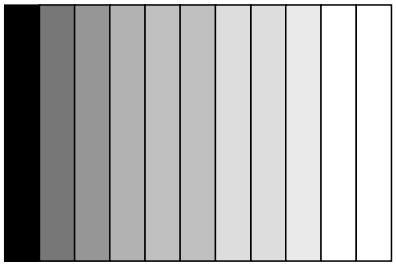
8. Auto Component Color Balance

8-1. Pattern Equipment

MSP3240A or same product
(16 Gray Scale Pattern output(Component output Level: 0.7Vp-p)

8-2. Method of Auto RGB Color Balance

(1) Input RGB Source : Component 480p/576p 16 Gray Scale Pattern
At this time, except Pb and Pr signal, only Y signal insert.
(2) Press ADJ KEY on R/C for adjustment.
(3) Press Vol. + KEY and operate To set.
(4) Auto-RGB OK means completed adjustment.



(Fig 7) Auto RGB/ Component Color Balance Test Pattern

9. Auto Adjustment Map(RS-232C)

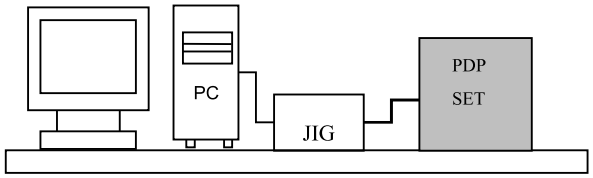
RF-043A						
Type		RS232				
Baud Rate		Data bit		Stop bit	Parity	
115200		8		1	NONE	
Protocol Setting	Index	Cmd1	Cmd2	Data	Min Value	Max Value
	R Gain	j	a		00(00)	255(FF)
	G Gain	j	b		00(00)	255(FF)
	B Gain	j	c		00(00)	255(FF)
	R Offset	j	d		00(00)	255(FF)
	G Offset	j	e		00(00)	255(FF)
	B Offset	j	f		00(00)	255(FF)

10. DDC Data Input

10-1. Required Test Equipment

(1) A jig for adjusting PC, DDC (PC serial to D-sub Connection equipment)
(2) S/W for writing DDC (EDID Data Write & Read)
(3) D-sub 15P Cable, D-Sub to DVI Connector (Connect to DVI Jack)

10-2. Setting of Device



10-3. Preparation for Adjustment

(1) Set devices as above and turn the PC, jig on.
(2) Put S/W for writing DDC (EDID data Write & Read) into operation. (operated in DOS mode.)

10-4. Sequence of Adjustment

(1) DDC Data Input for Analog-RGB

1) Put the set on the table and turn the power on.
2) Connect PC Serial to D-sub 15P Cable of jig for DDC adjustment to RGB terminal (D-Sub 15Pin).
3) Operate S/W for DDC record and select DDC data for Analog RGB in Model Menu.
4) Operate EDID Write command.
5) Operate EDID Read command and check whether Check Sum is 53.
6) If Check Sum is not 53, repeat 3) ~ 4).
7) If Check Sum is 53, DDC data for Analog-RGB input is completed.

(2) DDC Data input for Digital-RGB(DVI)

1) Connect PC Serial to DVI Cable of jig for DDC adjustment to DVI terminal (DVI Jack).
2) Operate S/W for DDC record and select DDC data for digital RGB in model menu.
3) Operate EDID Write command.
4) Operate EDID Read command and check whether Check sum is D2(1page), BF(2page).
5) If Check sum is not D2(1page), BF(2page), repeat 3) ~ 4).
6) If Check sum is D2(1page), BF(2page), DDC data for Analog-RGB input is completed.

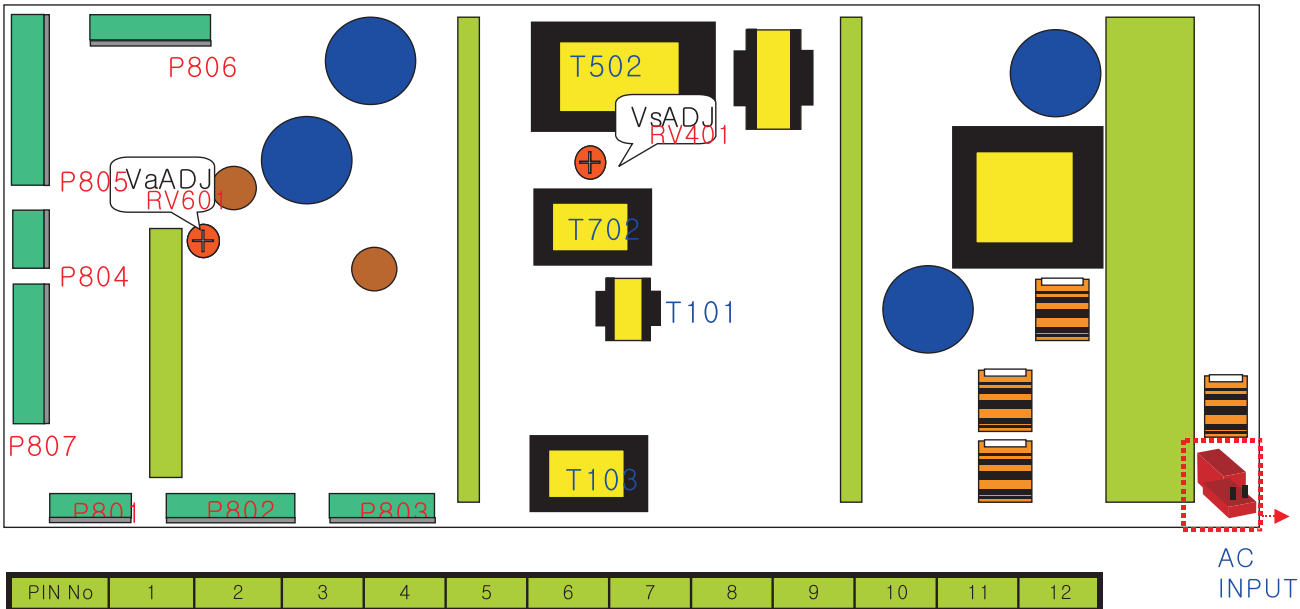
TROUBLE SHOOTING GUIDE

1. Power Board

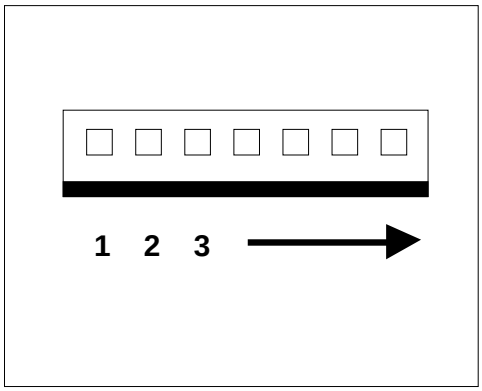
1-1. The whole flowchart which it follows in voltage output state

Start check
Doesn't the screen whole come out?
Yes
It is identical with Power Off condition?
No
Is the Interface signal operated?
Yes
1. Check the Power Off condition.
Yes
2. Check the Interface signal condition.
No
Doesn't the low pressure output come out?
Yes
Doesn't the St-by 5V signal come out?
No
Doesn't the 5V Monitor signal come out?
No
Doesn't the VSC signal RL-ON come out?
Yes
3. Check the St-by 5V signal circuit.
Yes
4. Check the 5V Monitor signal circuit.
Yes
5. Check the VSC RL-ON signal.
No
Doesn't the high tension output come out?
Yes
Doesn't the VSC signal Vs-ON come out?
No
Doesn't the Vs, Va voltage output come out?
No
Doesn't the VSC low pressure output come out?
Yes
7. Check the VSC Vs-ON signal
Yes
8. Check the Vs, Va voltage output circuit.
Yes
6. Check the VSC low pressure output
No
High tension output voltage Drop it occurs?
Yes
When remove the Y, Z B/D Module Input Connector, Power Board high tension output voltage Drop it occurs?
No
When remove the Y B/D Module Input Connector, output voltage Drop it occurs?
No
When remove the Z B/D Module Input Connector, output voltage Drop it occurs?
Yes
9. Check the Power Board Output high tension circuit
Yes
10. Check the Z B/D Module Coutput circuit
Yes
11. Check the Y B/D Module Coutput circuit
No
Manufacture enterprise meaning of a passage

1-2. Sony Power Board Structure



PIN No	1	2	3	4	5	6	7	8	9	10	11	12
P801	POD	5V-MNT	VS-ON	GND	STBY5V	RL-ON	A-ON					
P802	GND	GND	12V	12V	GND	GND	6V	6V	GND	GND	3.4V	3.4V
P803	GND	12V	GND	3.4V	GND	6V	GND	GND	25V	25V		
P804	GND	GND	5V	5V								
P805	Vs	Vs	Vs	NC	GND	GND	GND	GND	Va	Va		
P806	5V	GND	Va	GND	GND	NC	Vs	Vs				
P807	5V	5V	5V	5V	GND	GND	GND	GND				



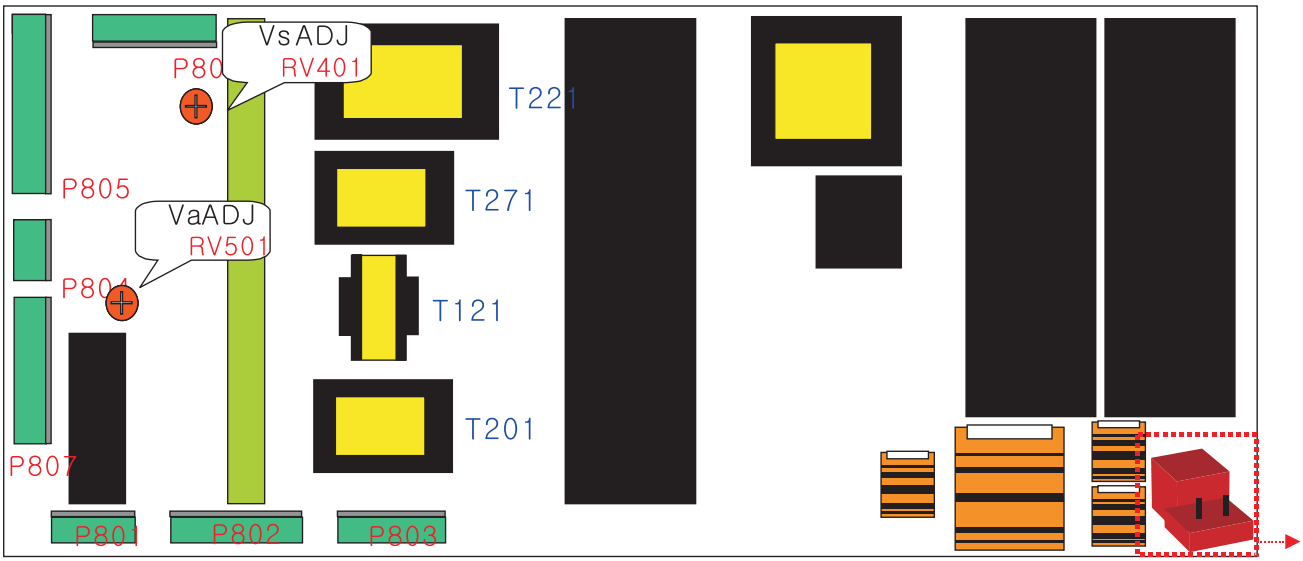
T502: Vs Trans

T702: Va Trans

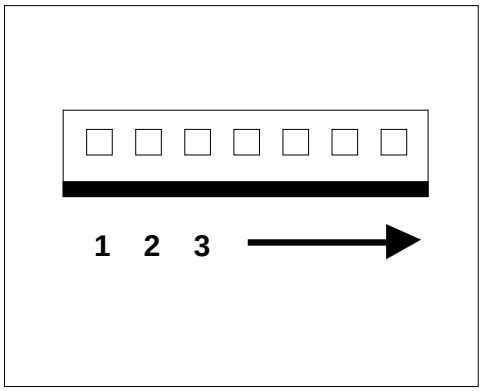
T101: St-by Trans

T103: Low Voltage Trans

1-3. Sanken Power Board Structure



PIN No	1	2	3	4	5	6	7	8	9	10	11	12
P801	POD	5V-MNT	VS-ON	GND	STBY5V	RL-ON	A-ON					
P802	GND	GND	12V	12V	GND	GND	6V	6V	GND	GND	3.4V	3.4V
P803	GND	12V	GND	3.4V	GND	6V	GND	GND	19V	19V		
P804	GND	GND	5V	5V								
P805	Vs	Vs	Vs	NC	GND	GND	GND	GND	Va	Va		
P806	5V	GND	Va	GND	GND	NC	Vs	Vs				
P807	5V	5V	5V	5V	GND	GND	GND	GND				



T221: Vs Trans

T271: Va Trans

T121: St-by Trans

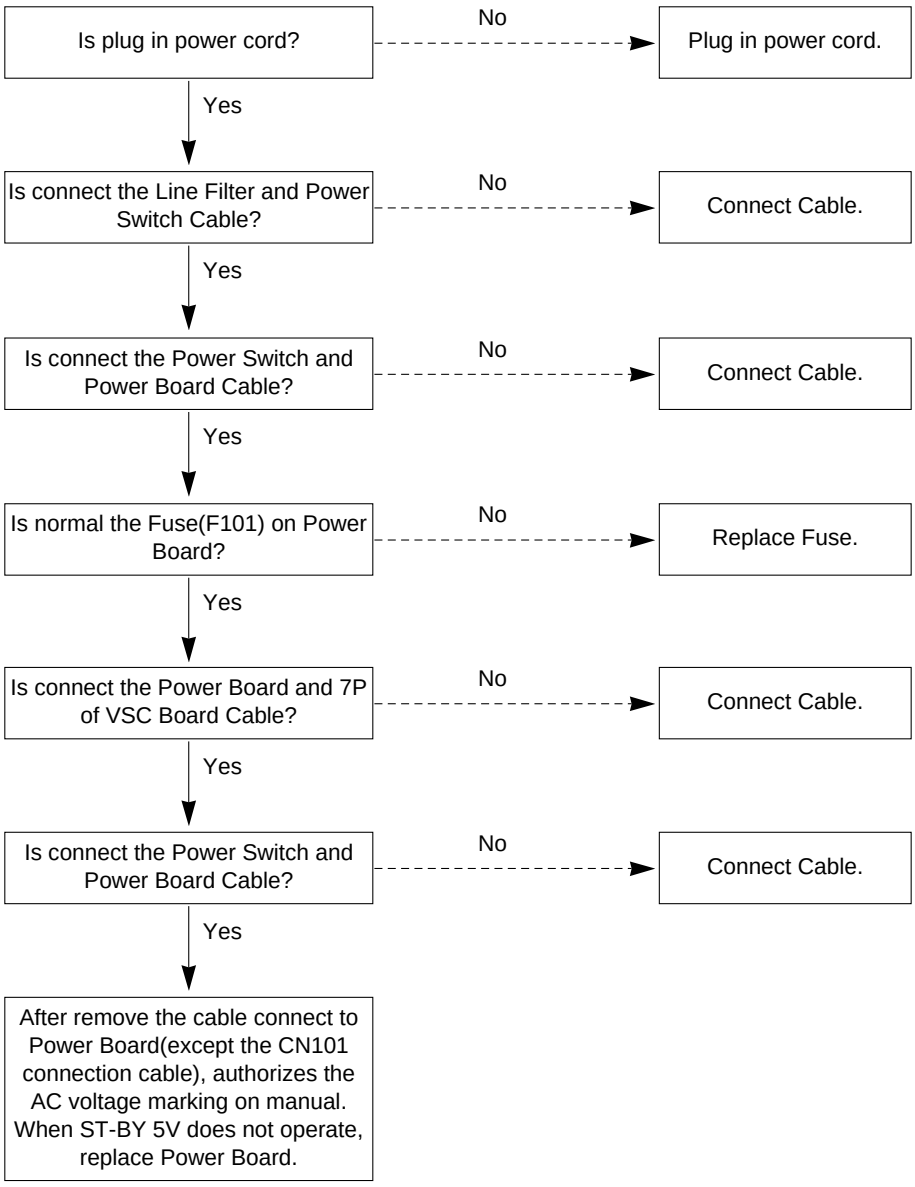
T201: Low Voltage Trans

2. No Power

(1) Symptom

- Does't minute discharge at module.
- Non does not come in into the front LED.

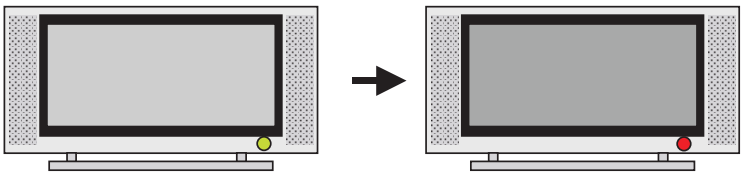
(2) Check follow


Is plug in power cord?
No
Plug in power cord.
Yes
Is connect the Line Filter and Power Switch Cable?
No
Connect Cable.
Yes
Is connect the Power Switch and Power Board Cable?
No
Connect Cable.
Yes
Is normal the Fuse(F101) on Power Board?
No
Replace Fuse.
Yes
Is connect the Power Board and 7P of VSC Board Cable?
No
Connect Cable.
Yes
Is connect the Power Switch and Power Board Cable?
No
Connect Cable.
Yes
After remove the cable connect to Power Board(except the CN101 connection cable), authorizes the AC voltage marking on manual. When ST-BY 5V does not operate, replace Power Board.

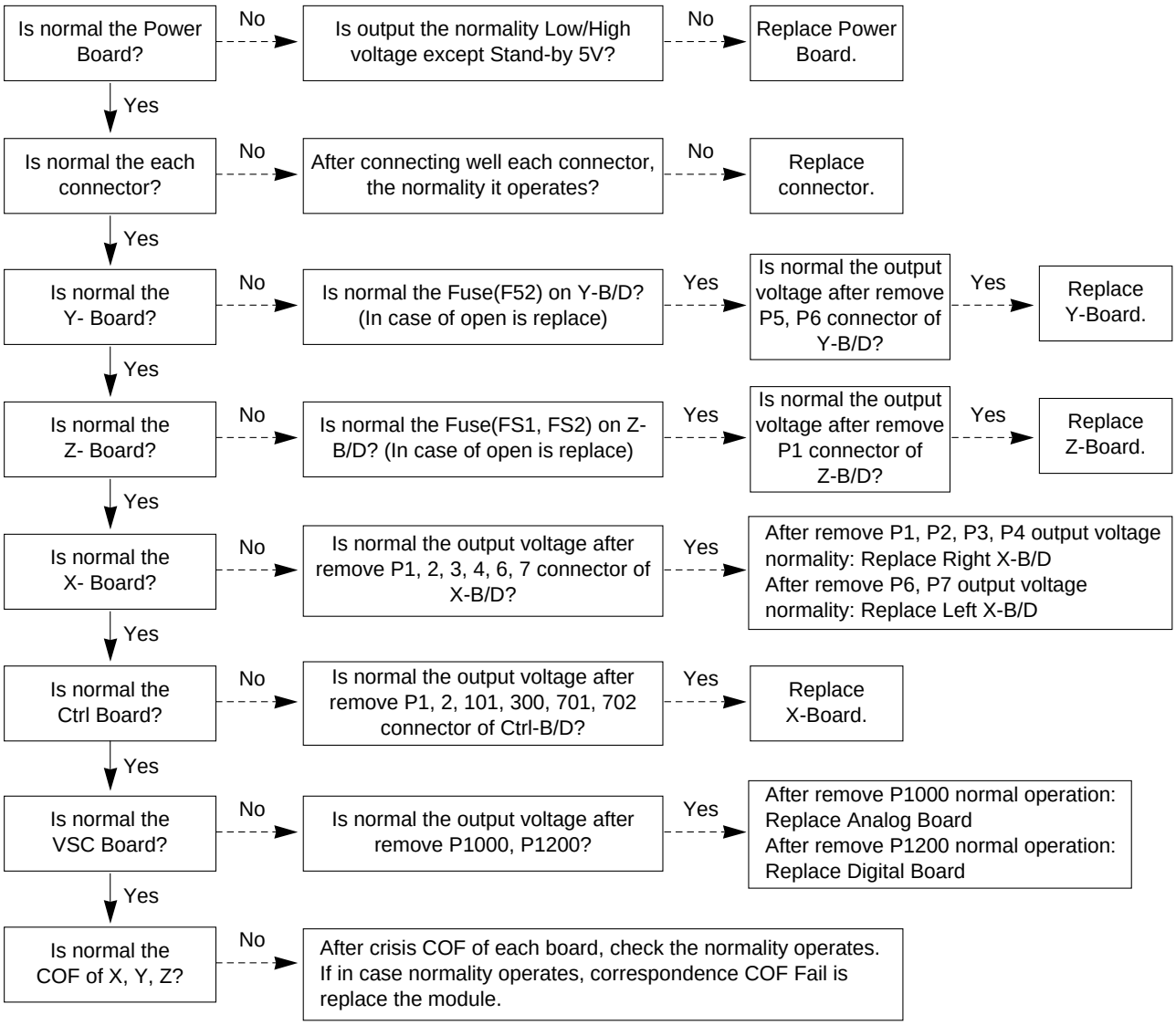
3. Protect Mode

(1) Symptom

- After once shining, it does not discharge minutely from module
- The Rely falls(The sound is audible “click”)
- It is converted with the color where the front LED is red from green.



(2) Check follow

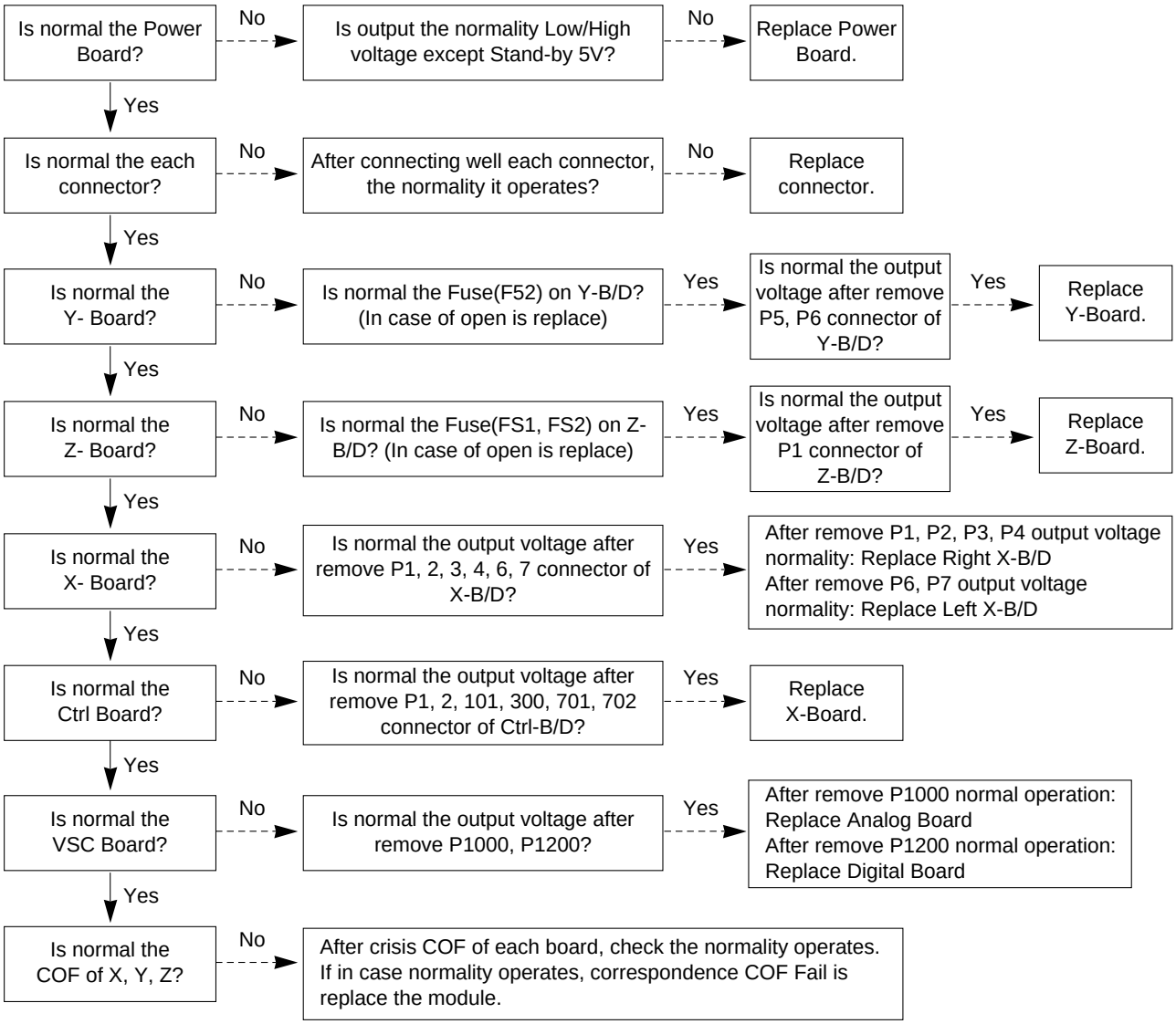

Is normal the Power Board?
No
Is output the normality Low/High voltage except Stand-by 5V?
No
Replace Power Board.
Yes
Is normal the each connector?
No
After connecting well each connector, the normality it operates?
No
Replace connector.
Yes
Is normal the Y- Board?
No
Is normal the Fuse(F52) on Y-B/D? (In case of open is replace)
Yes
Is normal the output voltage after remove P5, P6 connector of Y-B/D?
Yes
Replace Y-Board.
Yes
Is normal the Z- Board?
No
Is normal the Fuse(FS1, FS2) on Z-B/D? (In case of open is replace)
Yes
Is normal the output voltage after remove P1 connector of Z-B/D?
Yes
Replace Z-Board.
Yes
Is normal the X- Board?
No
Is normal the output voltage after remove P1, 2, 3, 4, 6, 7 connector of X-B/D?
Yes
After remove P1, P2, P3, P4 output voltage normality: Replace Right X-B/D
After remove P6, P7 output voltage normality: Replace Left X-B/D
Yes
Is normal the Ctrl Board?
No
Is normal the output voltage after remove P1, 2, 101, 300, 701, 702 connector of Ctrl-B/D?
Yes
Replace X-Board.
Yes
Is normal the VSC Board?
No
Is normal the output voltage after remove P1000, P1200?
Yes
After remove P1000 normal operation: Replace Analog Board
After remove P1200 normal operation: Replace Digital Board
Yes
Is normal the COF of X, Y, Z?
No
After crisis COF of each board, check the normality operates. If in case normality operates, correspondence COF Fail is replace the module.

4. No Raster

(1) Symptom

- Does't minute discharge at module.
- It maintains the condition where the front LED is green.

(2) Check follow

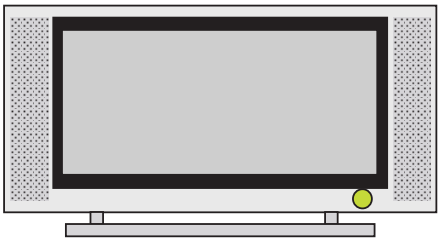

Is normal the Power Board?
No
Is output the normality Low/High voltage except Stand-by 5V?
No
Replace Power Board.
Yes
Is normal the each connector?
No
After connecting well each connector, the normality it operates?
No
Replace connector.
Yes
Is normal the Y- Board?
No
Is normal the Fuse(F52) on Y-B/D? (In case of open is replace)
Yes
Is normal the output voltage after remove P5, P6 connector of Y-B/D?
Yes
Replace Y-Board.
Yes
Is normal the Z- Board?
No
Is normal the Fuse(FS1, FS2) on Z-B/D? (In case of open is replace)
Yes
Is normal the output voltage after remove P1 connector of Z-B/D?
Yes
Replace Z-Board.
Yes
Is normal the X- Board?
No
Is normal the output voltage after remove P1, 2, 3, 4, 6, 7 connector of X-B/D?
Yes
After remove P1, P2, P3, P4 output voltage normality: Replace Right X-B/D
After remove P6, P7 output voltage normality: Replace Left X-B/D
Yes
Is normal the Ctrl Board?
No
Is normal the output voltage after remove P1, 2, 101, 300, 701, 702 connector of Ctrl-B/D?
Yes
Replace X-Board.
Yes
Is normal the VSC Board?
No
Is normal the output voltage after remove P1000, P1200?
Yes
After remove P1000 normal operation: Replace Analog Board
After remove P1200 normal operation: Replace Digital Board
Yes
Is normal the COF of X, Y, Z?
No
After crisis COF of each board, check the normality operates. If in case normality operates, correspondence COF Fail is replace the module.

5. In case of occur strange screen into specific mode

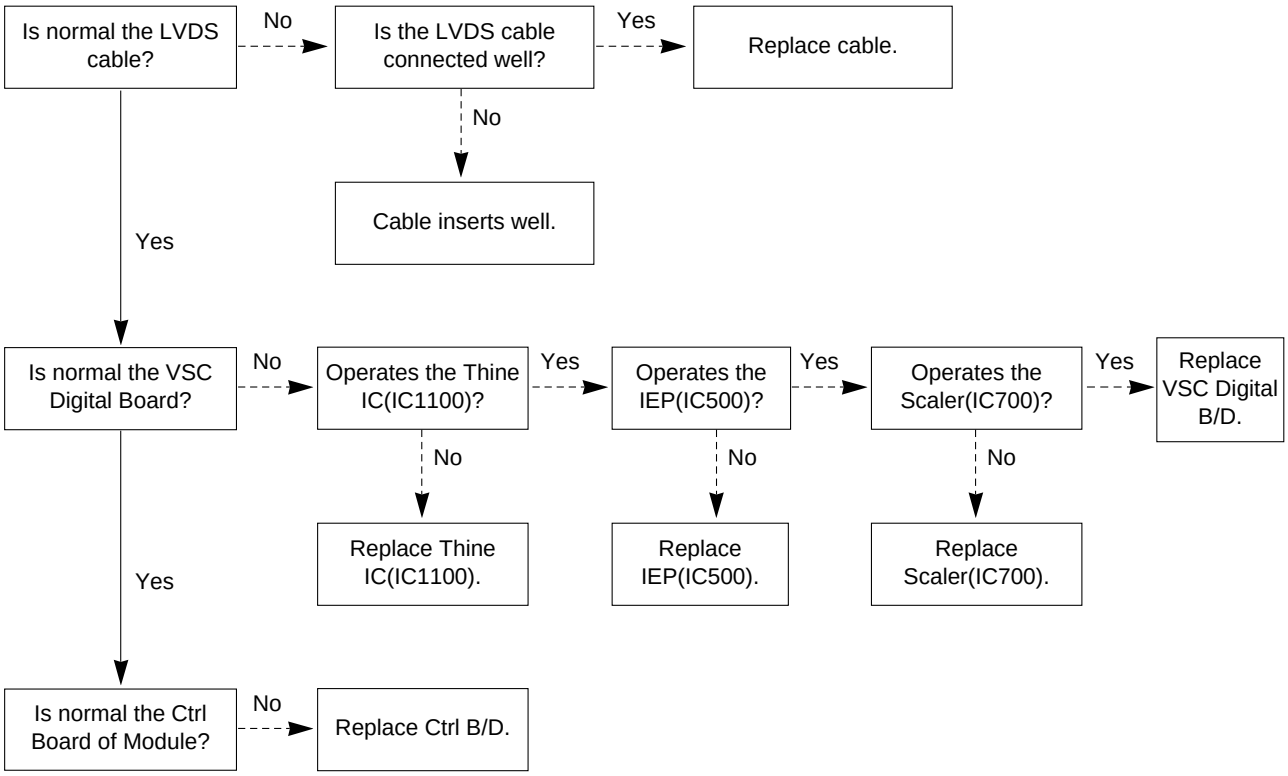
5-1. In case of does't display the OSD

(1) Symptom

- LED is green
- The minute discharge continuously becomes accomplished from module



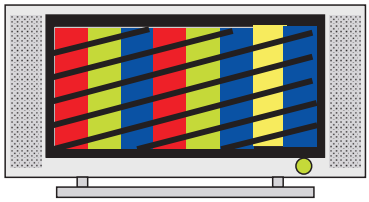
(2) Check follow



5-2. In case of does't display the screen into specific mode

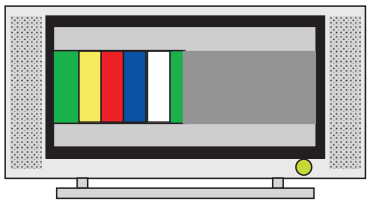
(1) Symptom

- The screen does not become the display from specific input mode (RF, AV, Component, RGB, DVI).

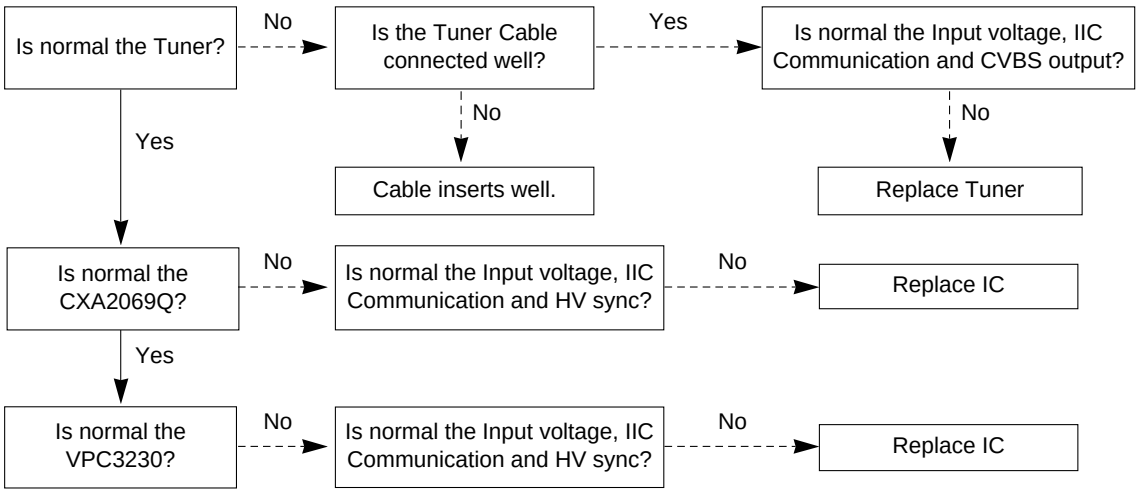


(2) Check follow

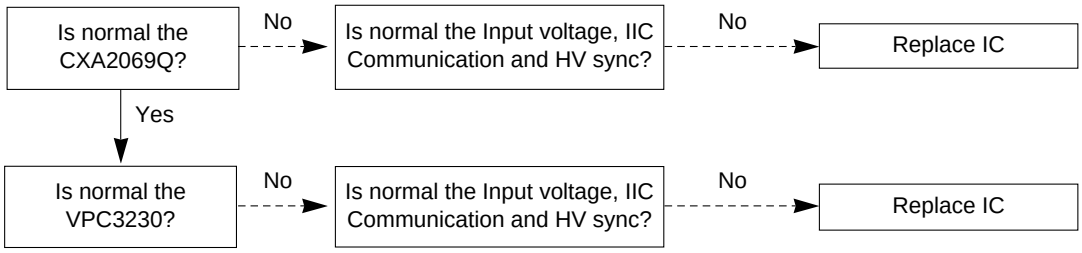
- Check the all input mode should become normality display.
- Check the Video(Main)/Data(Sub), Video(Main)/Video(Sub) should become normality display from the PIP mode or DW mode. (Re-Check it Swap)



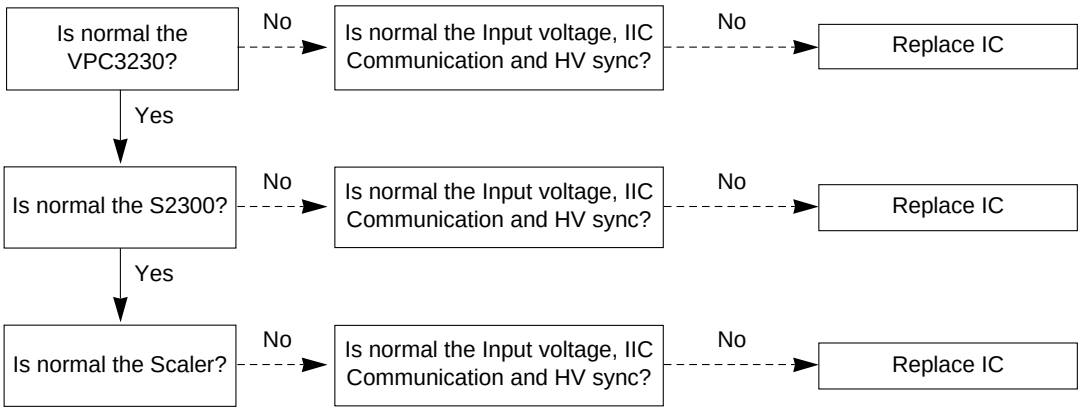
(3) In case of becomes unusual display from RF mode



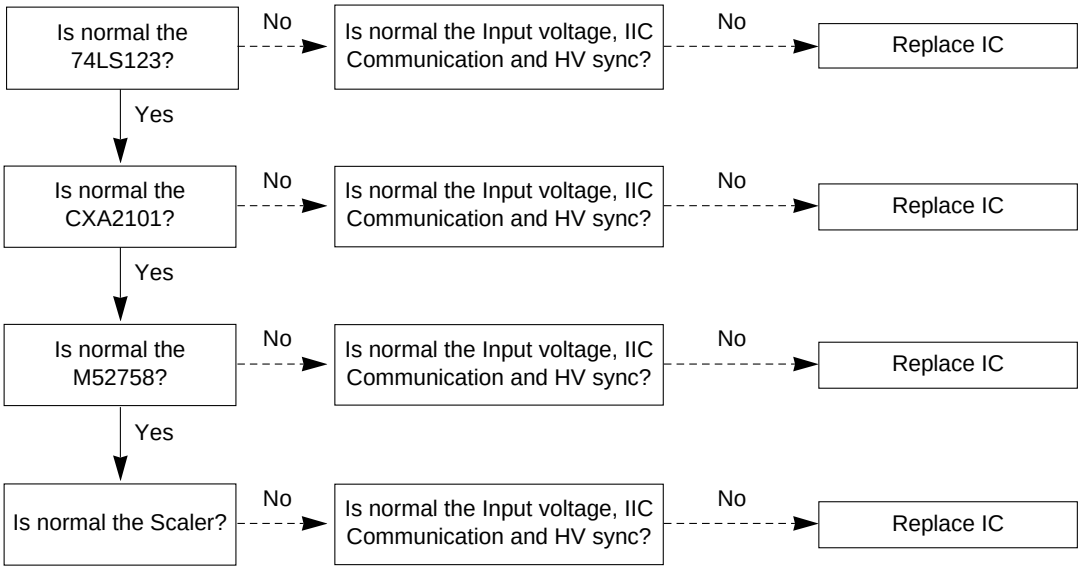
(4) In the case of becomes unusual display from RF, AV mode



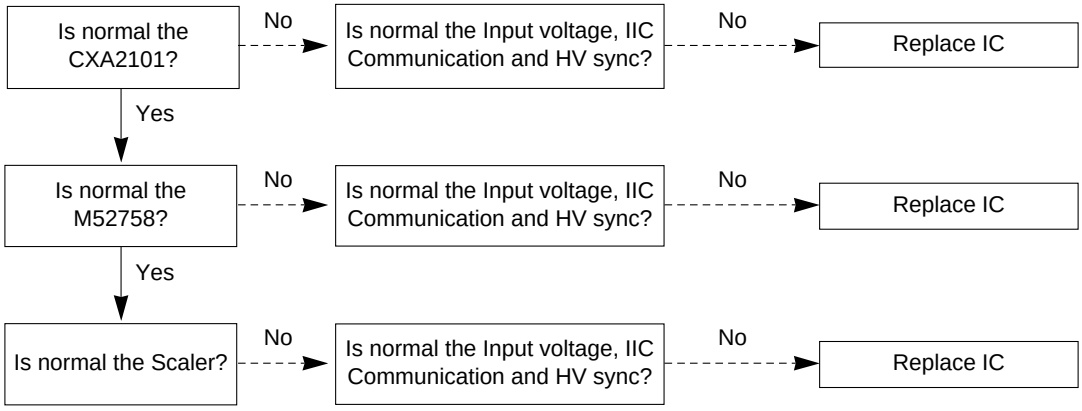
(5) In the case of becomes unusual display from RF, AV, Component 480i mode



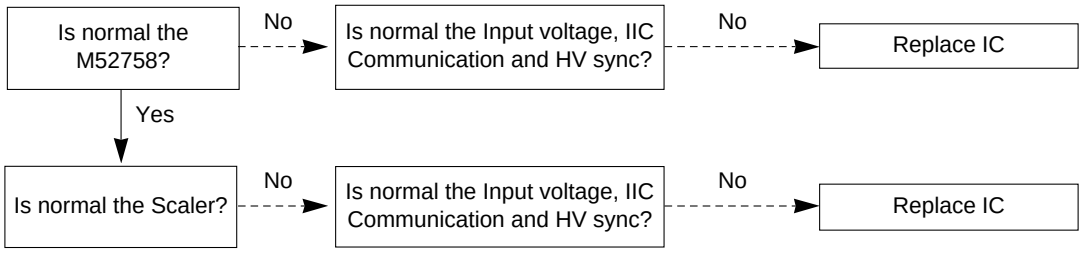
(6) In the case of becomes unusual display from Component DTV mode



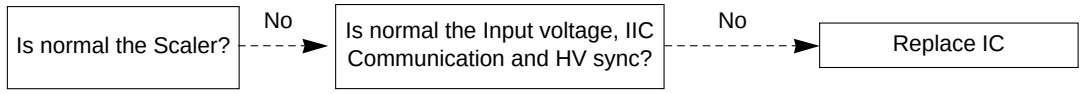
(7) In the case of becomes unusual display from RGB DTV mode



(8) In the case of becomes unusual display from RGB PC mode



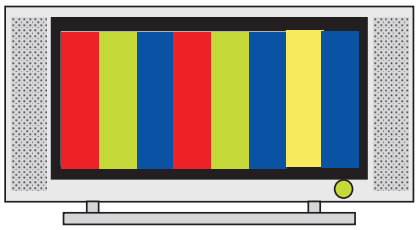
(8) In the case of becomes unusual display from DVI mode



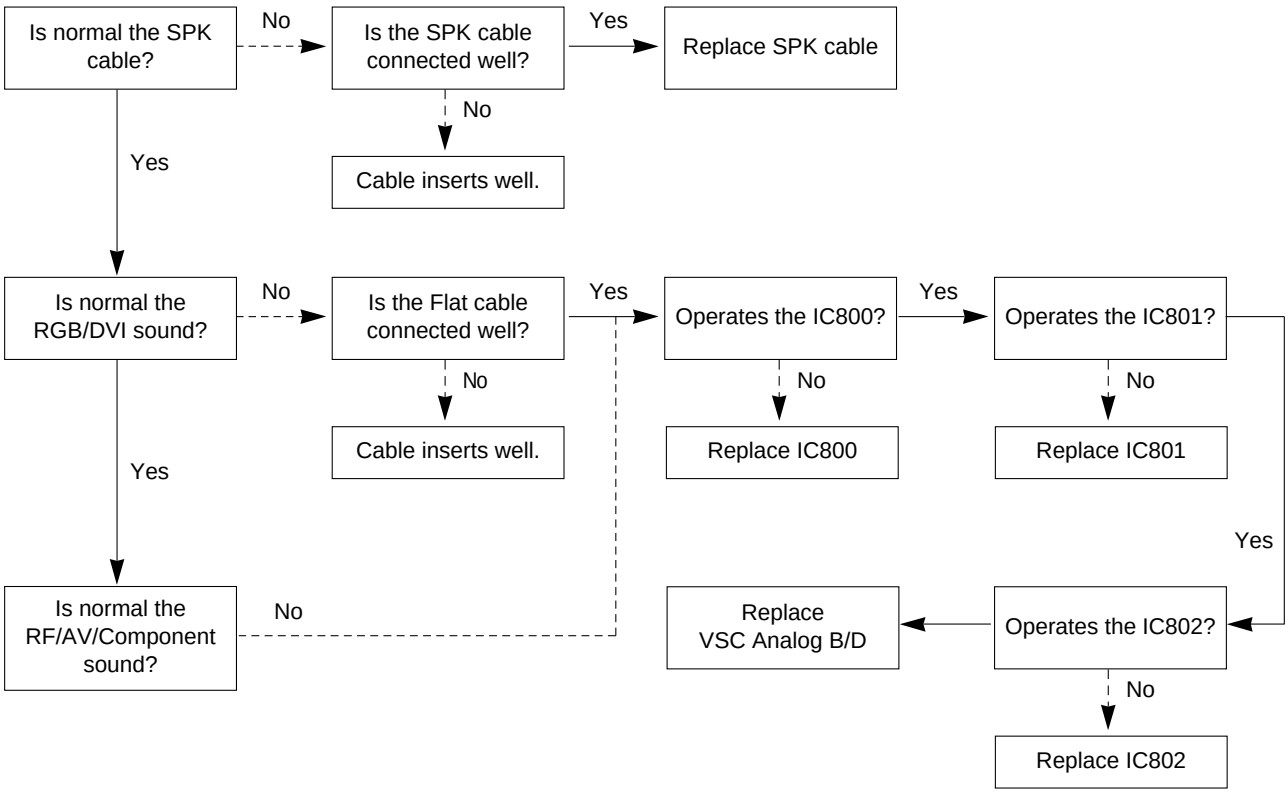
6. In case of no sound

(1) Symptom

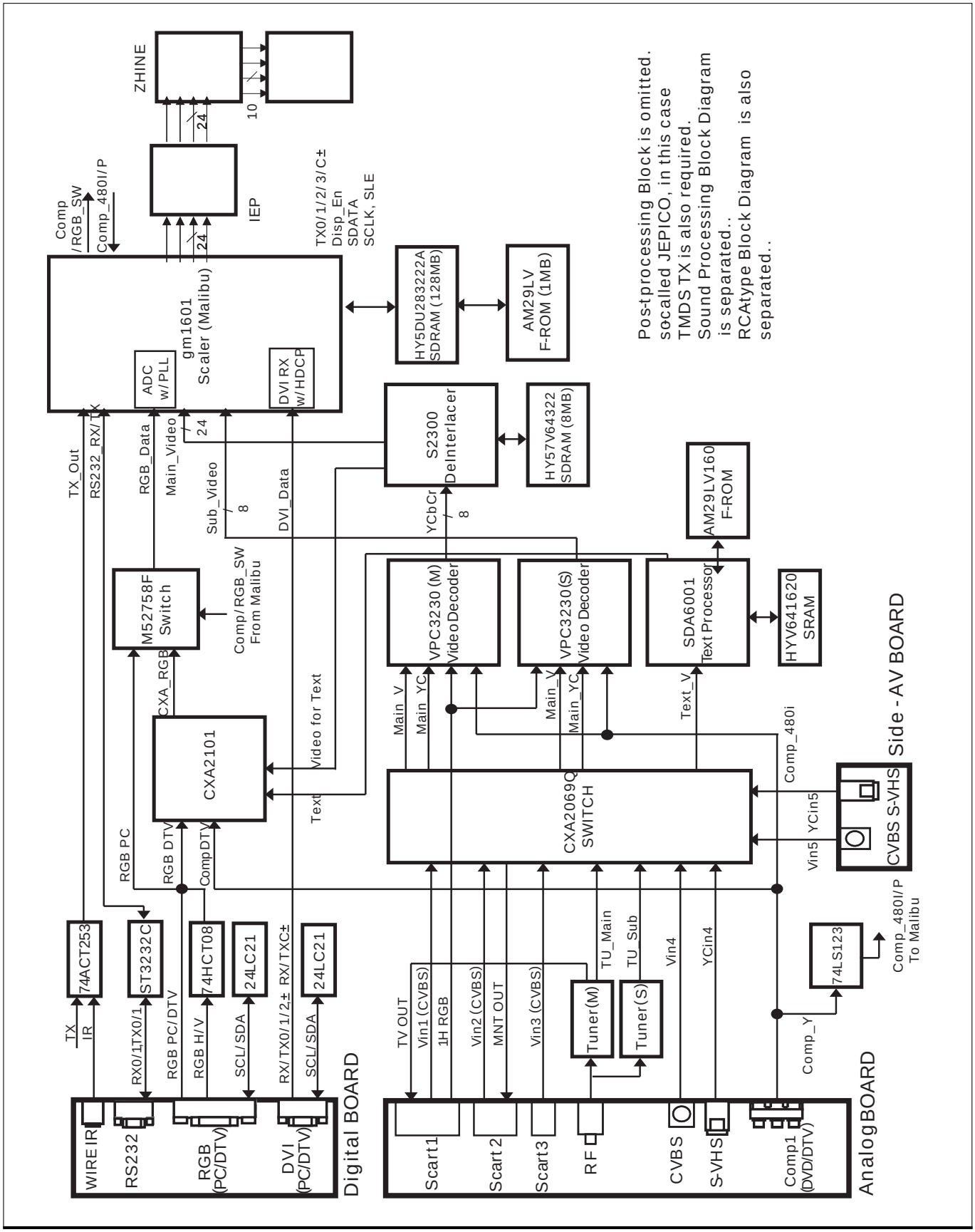
- LED is green
- Screen display but sound is not output



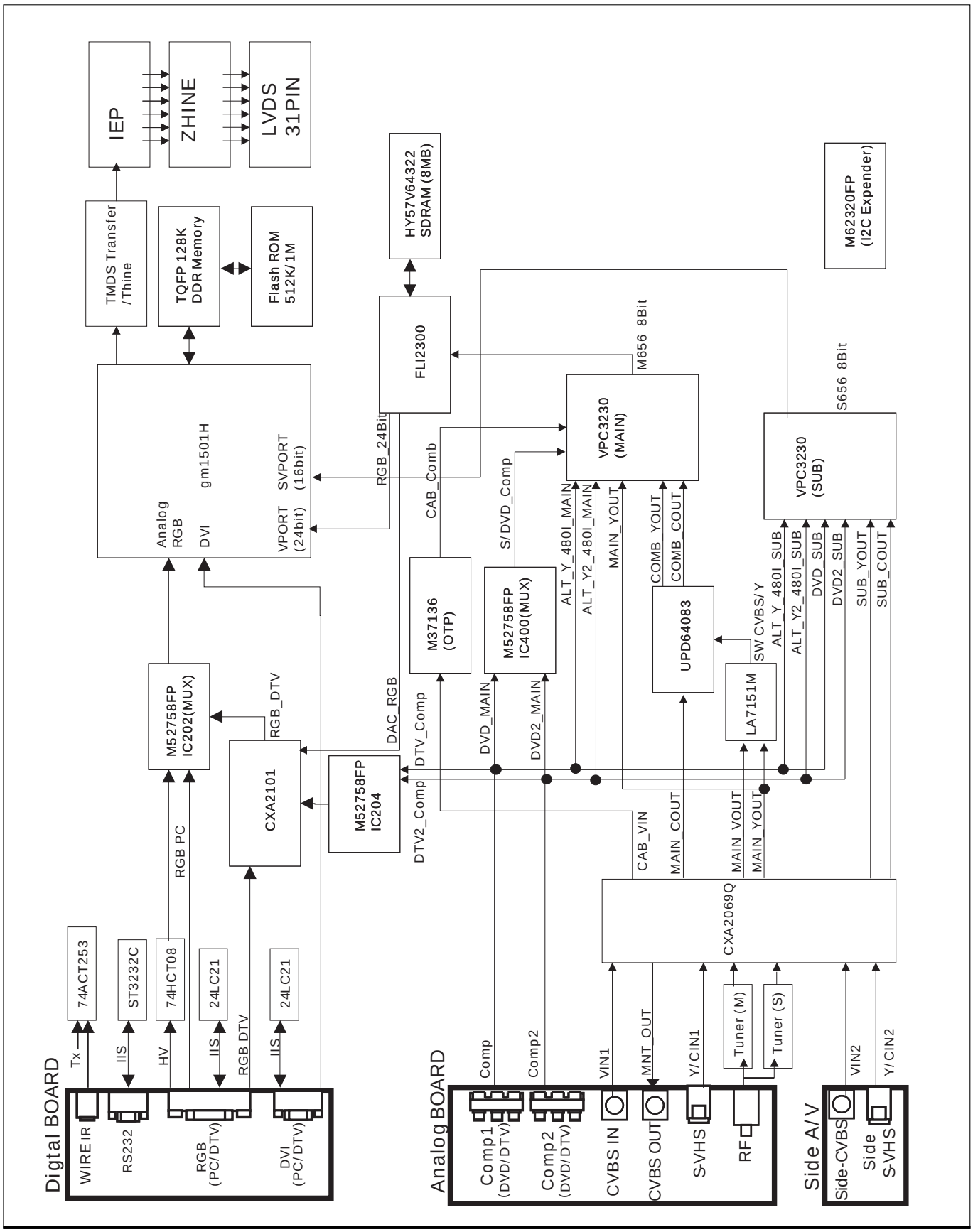
(2) Check follow



BLOCK DIAGRAM

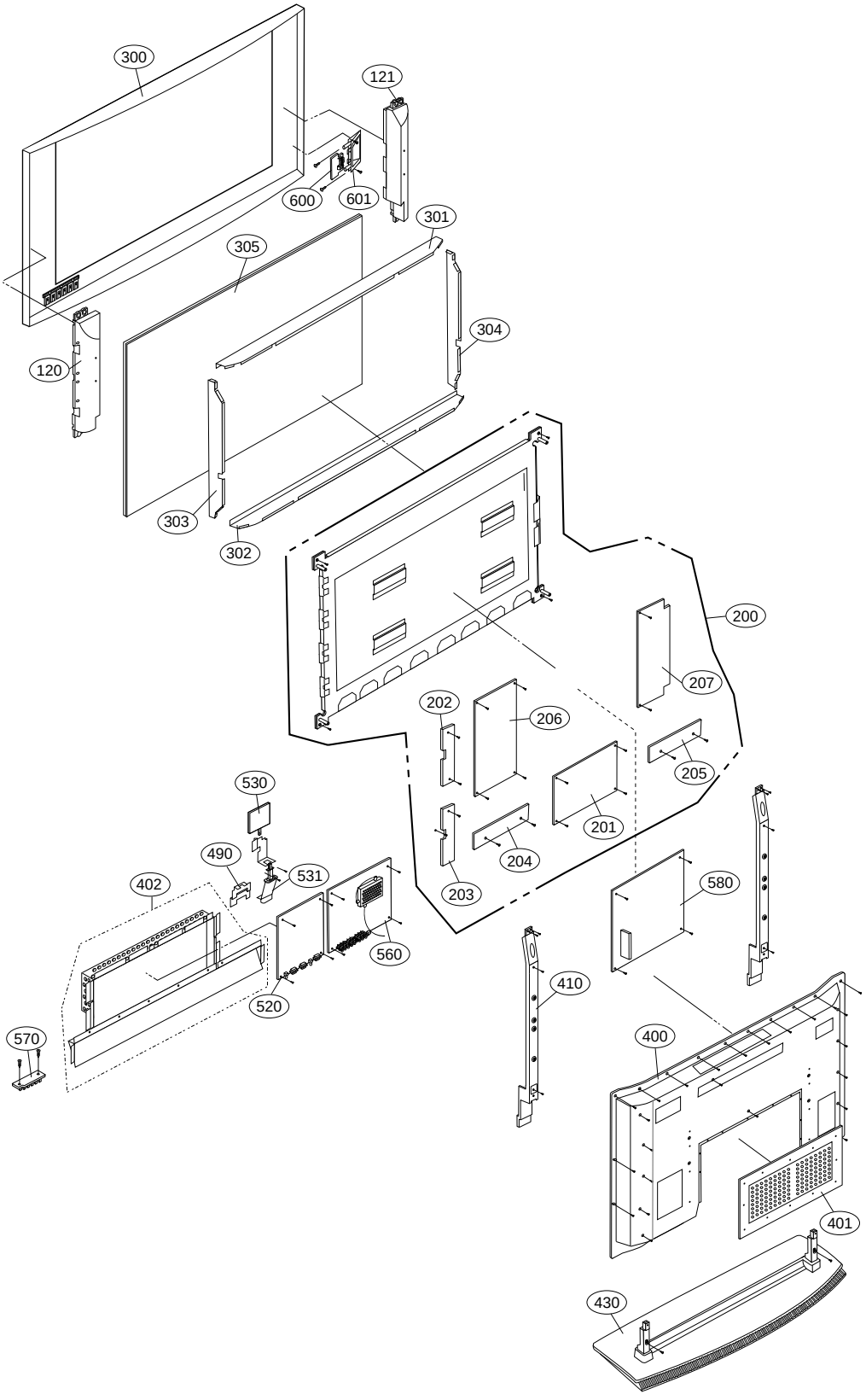


BLOCK DIAGRAM



NOTES

EXPLODED VIEW



EXPLODED VIEW PARTS LIST

No.	Part No.	Description
120	6401VD0013G	SPEAKER ASSEMBLY,FULL RANGE(R)
121	6401VD0013H	SPEAKER ASSEMBLY,FULL RANGE(L)
200	6348Q-E058T	PDP,42 16:9 852*480 PDP42V60000.AKLGG
	6348Q-E059C	PDP *P42W46XH
201	6871QCH034A	PCB ASSEMBLY,DISPLAY CTRL ASSY 42V6 NEW MCM(1222) LVDS
202	6871QDH066A	PCB ASSEMBLY,DISPLAY YDRV ASSY 42V6 YDRV TOP ASSY
203	6871QDH067A	PCB ASSEMBLY,DISPLAY YDRV ASSY 42V6 YDRV BTM ASSY
204	6871QLH034A	PCB ASSEMBLY,DISPLAY XRLT ASSY 42V6_XL(4LAYER)
205	6871QRH037A	PCB ASSEMBLY,DISPLAY XRRT ASSY 42V6_XR(4LAYER)
206	6871QYH029A	PCB ASSEMBLY,DISPLAY YSUS ASSY 42V6
207	6871QZH033A	PCB ASSEMBLY,DISPLAY ZSUS ASSY 42V6
300	3091V00645C	CABINET ASSEMBLY,RU-42PX20 NON NON ZENITH
301	4980V01067A	SUPPORTER ASSY,AL FILTER TOP RZ-42PZ10
	4980V01067D	SUPPORTER ASSY,AL FILTER TOP *P42W46XH
302	4980V01068A	SUPPORTER ASSY,AL FILTER BOTTOM RZ-42PX10
	4980V01068D	SUPPORTER ASSY,AL FILTER BOTTOM *P42W46XH
303	4980V01069A	SUPPORTER ASSY,AL FILTER RIGHT RZ-42PX10
	4980V01069D	SUPPORTER ASSY,AL FILTER RIGHT *P42W46XH
304	4980V01070A	SUPPORTER ASSY,AL FILTER LEFT RZ-42PX10
	4980V01070D	SUPPORTER ASSY,AL FILTER LEFT *P42W46XH
305	3790V00709B	FILTER(MECH),MN42PZ41 LGM42-01 42 ETCHING MESH GLASS FILTER
400	3809V00444A	BACK COVER ASSEMBLY,RZ-42PY20 NON .
	3809V00444C	BACK COVER ASSEMBLY *P42W46XH
401	3301V00025D	PLATE ASSEMBLY,COVER VSC TUNER RU-42PX10 PRESS
402	3301V00023D	PLATE ASSEMBLY,AV VSC TUNER RU-42PX10
410	4980V01071A	SUPPORTER ASSY,AL MODULE VER. RZ-42PX10
430	3501V00171A	BOARD ASSEMBLY,BASE
490	4980V01057A	SUPPORTER,PCB EGI POWER SW. RZ-42PY20
520	6871VMMS16A	PCB ASSEMBLY,MAIN RF043A MALIBU RU MAIN DIGITAL MANUAL
530	6871VSME92A	PCB ASSEMBLY,SUB PSW RF043A MAILBU
531	5020V00915A	BUTTON,POWER RZ-42PY20 ABS 1KEY .
560	6871VSMS04A	PCB ASSEMBLY,SUB TUNER RF043A MALIBU RU SUB ANALOG MANUAL
570	6871VSMZ91A	PCB ASSEMBLY,SUB CONT RF043A NEW HOLDER LOCAL KEY KODENSI
580	3501V00182A	BOARD ASSEMBLY,POWER RZ-42PX10 RF043A SRX-89 SONY PSU
600	6871VSME91A	PCB ASSEMBLY,SUB A/V RF043A MALIBU SIDE AV
601	4811V00118B	BRACKET ASSEMBLY,DECO RU-42PX10 RF043A SIDE AV

REPLACEMENT PARTS LIST

For Capacitor & Resistors, the charactors at 2nd and 3rd digit in the P/No. means as follows;
CC, CX, CK, CN : Ceramic
CQ : Polyestor
CE : Electrolytic
RD : Carbon Film
RS : Metal Oxide Film
RN : Metal Film
RF : Fusible

RUN DATE : 2004.4.8

LOCA. NO	PART NO	DESCRIPTION
IC		
IC100	0IMI623200B	M62320FP,I/O EXPANDER 16P
IC100	0IMMRAL014B	AT24C02N 10SI 2.7 8P
IC1000	0IMCRFA010A	KA7809R 2P
IC1001	0IPRPML001A	MIC39100 3P SOT223
IC1002	0IMCRSH001A	PQ05DZ1U SHARP 5
IC1003	0ITK118100B	TK11840L 8P SOT23L DC DC CONVERTER
IC1004	0IMCRSH001A	PQ05DZ1U SHARP 5
IC101	0IMMRAL014B	AT24C02N 10SI 2.7 8P
IC102	0IMCRTI003A	SN74HCT08D 16P
IC103	0IMCRTI021A	SN74LVTH541PWR 20P
IC104	0IMCRTI021A	SN74LVTH541PWR 20P
IC1100	0IMMRNE002A	UPD64083GF3BA 100 3D YC LSI
IC1100	0IMCRTH002A	THC63LVD103 64P
IC1101	0ISA715100D	LA7151M 10SOP AUDIO SW
IC1200	0IMCRSJ001A	SC1565IST 1.8 3P SOT223
IC1201	0IPRPML001A	MIC39100 3P SOT223
IC1202	0IMCRFA010A	KA7809R 2P
IC1300	0IMCRRH001A	BA033FP E2 3P SOP,TO252 3
IC1301	0IMCRSH001A	PQ05DZ1U SHARP 5
IC1302	0IMCRSH001A	PQ05DZ1U SHARP 5
IC1303	0IMCRRH001A	BA033FP E2 3P SOP,TO252 3
IC1304	0IMCRSJ001A	SC1565IST 1.8 3P SOT223
IC1305	0IMCRRH001A	BA033FP E2 3P SOP,TO252 3
IC1306	0IPRPML001A	MIC39100 3P SOT223
IC200	0IFA742530B	74ACT253SC 16P
IC201	0IMCRSG010A	ST3232CDR SOP16 R/TP RS232
IC202	0IMCRMI006A	M52758FP 36PIN
IC203	0IFA741230A	DM74LS123MX 16SOP
IC204	0IFA741230A	DM74LS123MX 16SOP
IC400	0ISO206900A	CXA2069Q QFP64 BK I2C BUS AV S/W
IC401	0ISO210100B	CXA2101AQ 80P VIDEO SIGNAL
IC500	0IZZVC0121A	M37136EFSP DIP 52P
IC500	0ICTMLG018A	LGDT4410 LG IC 176P
IC501	0IMCRTI003A	SN74HCT08D 16P
IC502	0IMCRAL006A	AT24C16AN 10SI 2.7 8P
IC503	0IKE703300E	KIA7033AF 3P SOT 89
IC600	0IMCRMI006A	M52758FP 36PIN, R/TP PLL IC
IC600	0IMCRGN002C	FLI2300BD 208P DIGITAL VIDEO
IC601	0IIT323000E	VPC3230D C5 80P VIDEO PROCESSOR
IC601	0IMMRHY033A	HY57V643220C(L)T 6 86P 64M
IC602	0ISA715100D	LA7151M 10SOP R/TP AUDIO SW
IC700	0IIT323000E	VPC3230D C5 80P VIDEO PROCESSOR
IC700	0IPRPGN012A	GM1501HBD 416P
IC701	0IMMRAL025A	AT24C32AN 10SI 2.7 8PIN
IC702	0IKE704200J	KIA7042AF SOT 89 TP 4.2V
IC800	0IMCRMN027B	MSP4440G QA C13 101
IC800	0IMMRHY020B	HY5DU283222AQ 5 100P
IC801	0IMCRNL001A	NSP 6241B 64P DIGITAL AUDIO
IC801	0IMMRMR023A	MX29LV800TTC 70 48PIN
IC802	0IMCRTI028C	TAS5122DCAR 56P/TSSOP 30W
IC805	0IKE704200J	KIA7042AF SOT 89 TP 4.2V
TRANSISTOR		
Q001	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q002	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q100	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q100	0TR830009BA	BSS83
Q1000	0TRKE80038A	KTC3552T RTK SOT 23F 50V 3A
Q101	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q101	0TR830009BA	BSS83
Q102	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q102	0TR830009BA	BSS83
Q103	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q103	0TR830009BA	BSS83
Q104	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q105	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q106	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q107	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q108	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q110	0TR830009BA	BSS83
Q1100	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q1101	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q1102	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q1103	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q1104	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q1105	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q1106	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q1107	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q1108	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q1109	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q111	0TR830009BA	BSS83
Q1110	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q1111	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q1112	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q1113	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q1114	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q1115	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q1116	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q1117	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q1118	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q1119	0TR102009AG	CHIP KRC102S KEC TP SOT 23
Q112	0TR830009BA	BSS83
Q113	0TR830009BA	BSS83
Q1200	0TR387500AA	CHIP 2SC3875S(ALY) KEC

REPLACEMENT PARTS LIST

LOCA. NO	PART NO	DESCRIPTION
Q1201	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q1202	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q207	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q208	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q209	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q210	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q211	0TR104009AF	CHIP KRC104S SOT 23 TP KEC
Q214	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q215	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q216	0TR104009AF	CHIP KRC104S SOT 23 TP KEC
Q217	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q218	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q219	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q300	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q301	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q302	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q303	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q304	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q305	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q306	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q307	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q308	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q309	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q310	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q311	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q312	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q313	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q314	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q315	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q316	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q317	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q318	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q319	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q320	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q321	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q400	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q400	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q401	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q401	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q402	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q402	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q403	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q404	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q405	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q406	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q600	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q601	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q602	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q603	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q800	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q801	0TR387500AA	CHIP 2SC3875S(ALY) KEC

LOCA. NO	PART NO	DESCRIPTION
Q802	0TR387500AA	CHIP 2SC3875S(ALY) KEC
	DIODE	
D100	0DD226239AA	CHIP KDS226 SOT 23
D100	0DD226239AA	CHIP KDS226 SOT 23
D1000	0DD226239AA	CHIP KDS226 SOT 23
D1001	0DD184009AA	KDS184S CHIP 85V 300MA
D1002	0DD226239AA	CHIP KDS226 SOT 23
D1003	0DD226239AA	CHIP KDS226 SOT 23
D1004	0DD226239AA	CHIP KDS226 SOT 23
D101	0DD226239AA	CHIP KDS226 SOT 23
D101	0DD226239AA	CHIP KDS226 SOT 23
D102	0DD226239AA	CHIP KDS226 SOT 23
D102	0DD226239AA	CHIP KDS226 SOT 23
D103	0DD226239AA	CHIP KDS226 SOT 23
D103	0DD226239AA	CHIP KDS226 SOT 23
D104	0DD226239AA	CHIP KDS226 SOT 23
D105	0DD184009AA	KDS184S CHIP 85V 300MA
D116	0DD226239AA	CHIP KDS226 SOT 23
D117	0DD226239AA	CHIP KDS226 SOT 23
D118	0DD226239AA	CHIP KDS226 SOT 23
D119	0DD226239AA	CHIP KDS226 SOT 23
D120	0DD226239AA	CHIP KDS226 SOT 23
D1200	0DD226239AA	CHIP KDS226 SOT 23
D1201	0DD226239AA	CHIP KDS226 SOT 23
D1206	0DD226239AA	CHIP KDS226 SOT 23
D121	0DD226239AA	CHIP KDS226 SOT 23
D122	0DD226239AA	CHIP KDS226 SOT 23
D123	0DD226239AA	CHIP KDS226 SOT 23
D124	0DD226239AA	CHIP KDS226 SOT 23
D125	0DD226239AA	CHIP KDS226 SOT 23
D126	0DD226239AA	CHIP KDS226 SOT 23
D127	0DD226239AA	CHIP KDS226 SOT 23
D128	0DD226239AA	CHIP KDS226 SOT 23
D129	0DD226239AA	CHIP KDS226 SOT 23
D130	0DD226239AA	CHIP KDS226 SOT 23
D1300	0DD226239AA	CHIP KDS226 SOT 23
D1301	0DD226239AA	CHIP KDS226 SOT 23
D1302	0DD226239AA	CHIP KDS226 SOT 23
D1303	0DD226239AA	CHIP KDS226 SOT 23
D1304	0DD226239AA	CHIP KDS226 SOT 23
D1305	0DD226239AA	CHIP KDS226 SOT 23
D1306	0DD226239AA	CHIP KDS226 SOT 23
D131	0DD226239AA	CHIP KDS226 SOT 23
D200	0DD226239AA	CHIP KDS226 SOT 23
D201	0DD226239AA	CHIP KDS226 SOT 23
D202	0DD226239AA	CHIP KDS226 SOT 23
D203	0DD226239AA	CHIP KDS226 SOT 23
D204	0DD226239AA	CHIP KDS226 SOT 23
D205	0DD226239AA	CHIP KDS226 SOT 23
D500	0DD226239AA	CHIP KDS226 SOT 23

REPLACEMENT PARTS LIST

LOCA. NO	PART NO	DESCRIPTION
D501	0DD226239AA	CHIP KDS226 SOT 23
D502	0DD226239AA	CHIP KDS226 SOT 23
LD001	0DL200000CA	LED,SAM5670(DL 2LRG) BK Y GREEN
LD1000	0DL233309AC	LED,SAM2333
LD1001	0DL233309AC	LED,SAM2333
LD1002	0DL233309AC	LED,SAM2333
LD1003	0DL233309AC	LED,SAM2333
LD1100	0DL233309AC	LED,SAM2333
LD1203	0DL233309AC	LED,SAM2333
LD1204	0DL233309AC	LED,SAM2333
LD1206	0DL233309AC	LED,SAM2333
LD1207	0DL233309AC	LED,SAM2333
LD500	0DL233309AC	LED,SAM2333
LD501	0DL233309AC	LED,SAM2333
LD502	0DL233309AC	LED,SAM2333
LD503	0DL233309AC	LED,SAM2333
ZD100	0DR050008AA	SD05.TC SOD323 5V 5A 15A
ZD101	0DR050008AA	SD05.TC SOD323 5V 5A 15A
ZD102	0DR050008AA	SD05.TC SOD323 5V 5A 15A
ZD103	0DR050008AA	SD05.TC SOD323 5V 5A 15A
ZD104	0DR050008AA	SD05.TC SOD323 5V 5A 15A
ZD105	0DR050008AA	SD05.TC SOD323 5V 5A 15A
ZD400	0DR050008AA	SD05.TC SOD323 5V 5A 15A
ZD401	0DR050008AA	SD05.TC SOD323 5V 5A 15A
ZD800	0DZ820009AH	ZENERS,MTZJ8.2B
CAPACITOR		
C002	0CE4763F618	47UF SRE 16V M
C1001	0CE107SF6DC	100UF MVG 16V M
C1002	0CE227VF6DC	220UF MV 16V 20%
C1003	0CE107SF6DC	100UF MVG 16V M
C1004	0CE475SK6DC	4.7UF MVG 50V 20%
C1006	0CE477SF6DC	470UF MVG 16V 20%
C1016	0CE107SF6DC	100UF MVG 16V M
C1017	0CE107SF6DC	100UF MVG 16V M
C1018	0CE107SF6DC	100UF MVG 16V M
C102	0CE475SK6DC	4.7UF MVG 50V 20%
C102	0CE474SK6DC	0.47UF MVG 50V M
C1020	0CE107SF6DC	100UF MVG 16V M
C1022	0CE477SF6DC	470UF MVG 16V 20%
C1025	0CE475SK6DC	4.7UF MVG 50V 20%
C1027	0CE107SF6DC	100UF MVG 16V M
C1031	0CE477SF6DC	470UF MVG 16V 20%
C1037	0CE477SF6DC	470UF MVG 16V 20%
C104	0CE476DF618	47UF STD 16V M
C1041	0CE107SF6DC	100UF MVG 16V M
C1042	0CE477SF6DC	470UF MVG 16V 20%
C1045	0CE107SF6DC	100UF MVG 16V M
C1046	0CE107SF6DC	100UF MVG 16V M
C105	0CE476DF618	47UF STD 16V M
C1052	0CE107SF6DC	100UF MVG 16V M

LOCA. NO	PART NO	DESCRIPTION
C1058	0CE107SF6DC	100UF MVG 16V M
C1059	0CE477DJ618	470UF STD 35V 20%
C106	0CE227VF6DC	220UF MV 16V 20%
C1060	0CE227VF6DC	220UF MV 16V 20%
C1061	0CE107SF6DC	100UF MVG 16V M
C1063	0CE227VF6DC	220UF MV 16V 20%
C1066	0CE107SF6DC	100UF MVG 16V M
C1067	0CE477DJ618	470UF STD 35V 20%
C107	0CE477SF6DC	470UF MVG 16V 20%
C1072	0CE107SF6DC	100UF MVG 16V M
C1074	0CE107SF6DC	100UF MVG 16V M
C1077	0CE107SF6DC	100UF MVG 16V M
C108	0CE477SF6DC	470UF MVG 16V 20%
C1081	0CE107SF6DC	100UF MVG 16V M
C1083	0CE107SF6DC	100UF MVG 16V M
C1084	0CE107SF6DC	100UF MVG 16V M
C1087	0CE107SF6DC	100UF MVG 16V M
C110	0CE227VF6DC	220UF MV 16V 20%
C1108	0CE106SF6DC	10UF MVG 16V 20%
C111	0CE475SK6DC	4.7UF MVG 50V 20%
C112	0CE477SF6DC	470UF MVG 16V 20%
C1128	0CE106SF6DC	10UF MVG 16V 20%
C1129	0CN105EJ56A	1.0UF 3216 35V 10%
C113	0CE106SF6DC	10UF MVG 16V 20%
C114	0CE475SK6DC	4.7UF MVG 50V 20%
C114	0CE474SK6DC	0.47UF MVG 50V M
C1145	0CN105EJ56A	1.0UF 3216 35V 10%
C1146	0CE106SF6DC	10UF MVG 16V 20%
C1147	0CE106SF6DC	10UF MVG 16V 20%
C1152	0CE106SF6DC	10UF MVG 16V 20%
C1159	0CE476SF6DC	47UF MVG 16V M
C1160	0CE476SF6DC	47UF MVG 16V M
C120	0CE476SF6DC	47UF MVG 16V M
C1202	0CE476SF6DC	47UF MVG 16V M
C1205	0CE107SF6DC	100UF MVG 16V M
C1206	0CE477SF6DC	470UF MVG 16V 20%
C121	0CE477SF6DC	470UF MVG 16V 20%
C121	0CE476SF6DC	47UF MVG 16V M
C1211	0CE477SF6DC	470UF MVG 16V 20%
C1212	0CE477SF6DC	470UF MVG 16V 20%
C1215	0CE477SF6DC	470UF MVG 16V 20%
C1216	0CE227VF6DC	220UF MV 16V 20%
C1218	0CE477SF6DC	470UF MVG 16V 20%
C1220	0CE227VF6DC	220UF MV 16V 20%
C1229	0CE227VF6DC	220UF MV 16V 20%
C1233	0CE477SF6DC	470UF MVG 16V 20%
C124	0CE107SF6DC	100UF MVG 16V M
C1249	0CE227VF6DC	220UF MV 16V 20%
C1250	0CE227VF6DC	220UF MV 16V 20%
C1251	0CE477SF6DC	470UF MVG 16V 20%
C1254	0CE227VF6DC	220UF MV 16V 20%

REPLACEMENT PARTS LIST

LOCA. NO	PART NO	DESCRIPTION
C1256	0CE227VF6DC	220UF MV 16V 20%
C1257	0CE227VF6DC	220UF MV 16V 20%
C1259	0CE227VF6DC	220UF MV 16V 20%
C127	0CE475SK6DC	4.7UF MVG 50V 20%
C1273	0CE476SF6DC	47UF MVG 16V M
C1274	0CE107SF6DC	100UF MVG 16V M
C1275	0CE107SF6DC	100UF MVG 16V M
C1279	0CE107SF6DC	100UF MVG 16V M
C1305	0CE107SF6DC	100UF MVG 16V M
C1314	0CE476SF6DC	47UF MVG 16V M
C1315	0CE107SF6DC	100UF MVG 16V M
C1317	0CE107SF6DC	100UF MVG 16V M
C1331	0CE477SF6DC	470UF MVG 16V 20%
C1333	0CE477SF6DC	470UF MVG 16V 20%
C1353	0CE477SF6DC	470UF MVG 16V 20%
C1355	0CE477SF6DC	470UF MVG 16V 20%
C1362	0CE107SF6DC	100UF MVG 16V M
C1366	0CE227VF6DC	220UF MV 16V 20%
C1368	0CE227VF6DC	220UF MV 16V 20%
C1373	0CE107SF6DC	100UF MVG 16V M
C1374	0CE476SF6DC	47UF MVG 16V M
C1384	0CE476SF6DC	47UF MVG 16V M
C1388	0CE476SF6DC	47UF MVG 16V M
C1391	0CE477SF6DC	470UF MVG 16V 20%
C1400	0CE476SF6DC	47UF MVG 16V M
C1402	0CE476SF6DC	47UF MVG 16V M
C1404	0CE477SF6DC	470UF MVG 16V 20%
C1410	0CE477SF6DC	470UF MVG 16V 20%
C1415	0CE477SF6DC	470UF MVG 16V 20%
C1425	0CE107SF6DC	100UF MVG 16V M
C208	0CE106SF6DC	10UF MVG 16V 20%
C209	0CE477SF6DC	470UF MVG 16V 20%
C210	0CE106SF6DC	10UF MVG 16V 20%
C222	0CE476XFKDC	47UF MVK BP,CN 16V 20%, 20%
C222	0CE476SF6DC	47UF MVG 16V M
C223	0CE476XFKDC	47UF MVK BP,CN 16V 20%, 20%
C223	0CE476SF6DC	47UF MVG 16V M
C224	0CE476XFKDC	47UF MVK BP,CN 16V 20%, 20%
C224	0CE476SF6DC	47UF MVG 16V M
C230	0CE107SF6DC	100UF MVG 16V M
C251	0CE106SF6DC	10UF MVG 16V 20%
C254	0CN105EJ56A	1.0UF 3216 35V 10%
C258	0CE476SF6DC	47UF MVG 16V M
C261	0CE476SF6DC	47UF MVG 16V M
C263	0CE476SF6DC	47UF MVG 16V M
C272	0CE107SF6DC	100UF MVG 16V M
C274	0CE107SF6DC	100UF MVG 16V M
C276	0CE107SF6DC	100UF MVG 16V M
C288	0CE106SF6DC	10UF MVG 16V 20%
C289	0CN105EJ56A	1.0UF 3216 35V 10%
C300	0CE476SF6DC	47UF MVG 16V M

LOCA. NO	PART NO	DESCRIPTION
C301	0CE476SF6DC	47UF MVG 16V M
C303	0CE476SF6DC	47UF MVG 16V M
C315	0CE476SF6DC	47UF MVG 16V M
C316	0CE476SF6DC	47UF MVG 16V M
C317	0CE476SF6DC	47UF MVG 16V M
C322	0CE476SF6DC	47UF MVG 16V M
C324	0CE476SF6DC	47UF MVG 16V M
C334	0CE476SF6DC	47UF MVG 16V M
C335	0CE476SF6DC	47UF MVG 16V M
C400	0CE227VF6DC	220UF MV 16V 20%
C401	0CE476SF6DC	47UF MVG 16V M
C402	0CE107SF6DC	100UF MVG 16V M
C404	0CE227VF6DC	220UF MV 16V 20%
C406	0CE476SF6DC	47UF MVG 16V M
C410	0CE107SF6DC	100UF MVG 16V M
C423	0CE105SK6DC	1UF MVG 50V M
C429	0CE107SF6DC	100UF MVG 16V M
C435	0CE107SF6DC	100UF MVG 16V M
C440	0CE106SF6DC	10UF MVG 16V 20%
C442	0CE106SF6DC	10UF MVG 16V 20%
C508	0CN105EJ56A	1.0UF 3216 35V 10%
C520	0CE476SF6DC	47UF MVG 16V M
C524	0CE476SF6DC	47UF MVG 16V M
C526	0CE107SF6DC	100UF MVG 16V M
C601	0CE107SF6DC	100UF MVG 16V M
C605	0CE476SF6DC	47UF MVG 16V M
C607	0CE476SF6DC	47UF MVG 16V M
C608	0CE476SF6DC	47UF MVG 16V M
C611	0CE476SF6DC	47UF MVG 16V M
C612	0CE476SF6DC	47UF MVG 16V M
C614	0CE476SF6DC	47UF MVG 16V M
C626	0CE107SF6DC	100UF MVG 16V M
C627	0CE107SF6DC	100UF MVG 16V M
C632	0CE107SF6DC	100UF MVG 16V M
C634	0CE106SF6DC	10UF MVG 16V 20%
C637	0CE106SF6DC	10UF MVG 16V 20%
C651	0CE106SF6DC	10UF MVG 16V 20%
C671	0CE106SF6DC	10UF MVG 16V 20%
C672	0CE106SF6DC	10UF MVG 16V 20%
C673	0CE106SF6DC	10UF MVG 16V 20%
C674	0CE106SF6DC	10UF MVG 16V 20%
C702	0CE107SF6DC	100UF MVG 16V M
C703	0CE226SF6DC	22UF MVG 16V 20%
C710	0CE106SF6DC	10UF MVG 16V 20%
C713	0CE106SF6DC	10UF MVG 16V 20%
C720	0CE226SF6DC	22UF MVG 16V 20%
C723	0CE226SF6DC	22UF MVG 16V 20%
C727	0CE106SF6DC	10UF MVG 16V 20%
C737	0CE226SF6DC	22UF MVG 16V 20%
C744	0CE226SF6DC	22UF MVG 16V 20%
C752	0CE226SF6DC	22UF MVG 16V 20%

REPLACEMENT PARTS LIST

LOCA. NO	PART NO	DESCRIPTION
C757	0CE226SF6DC	22UF MVG 16V 20%
C762	0CE226SF6DC	22UF MVG 16V 20%
C769	0CE226SF6DC	22UF MVG 16V 20%
C777	0CE226SF6DC	22UF MVG 16V 20%
C778	0CE226SF6DC	22UF MVG 16V 20%
C785	0CE335SK6DC	3.3UF MVG 50V 20%
C800	0CE226SF6DC	22UF MVG 16V 20%
C801	0CE226SF6DC	22UF MVG 16V 20%
C802	0CE476SF6DC	47UF MVG 16V M
C803	0CE226VF6DC	22UF MV 16V 20%
C812	0CE226VF6DC	22UF MV 16V 20%
C817	0CE226SF6DC	22UF MVG 16V 20%
C822	0CE107SF6DC	100UF MVG 16V M
C825	0CE335SK6DC	3.3UF MVG 50V 20%
C827	0CE107SF6DC	100UF MVG 16V M
C828	0CE106SF6DC	10UF MVG 16V 20%
C829	0CE106SF6DC	10UF MVG 16V 20%
C834	0CE107SF6DC	100UF MVG 16V M
C834	0CE106SF6DC	10UF MVG 16V 20%
C837	0CE106SF6DC	10UF MVG 16V 20%
C840	0CE106SF6DC	10UF MVG 16V 20%
C841	0CE107SF6DC	100UF MVG 16V M
C847	0CN105EJ56A	1.0UF 3216 35V 10%
C851	0CE108DH618	1000UF STD 25V M
C852	0CE108DH618	1000UF STD 25V M
C862	0CF4741L438	0.47UF D 63V 5%
C863	0CF4741L438	0.47UF D 63V 5%
C872	0CE335SK6DC	3.3UF MVG 50V 20%
C873	0CN105EJ56A	1.0UF 3216 35V 10%
C874	0CE108DH618	1000UF STD 25V M
JACK		
JK103	6613V00026A	JACK ASSEMBLY,UJB 03 28A
JK200	6612VJH020B	JACK,RCA PPJ122B 6P
JK201	6612VJH020C	JACK,RCA PPJ122C 6P
JK202	6612VJH019B	JACK,RCA PPJ121B 4P
P101	380-068E	JACK,PHONE UEJ CV 018
P102	6612BBBHN6A	JACK,DIN 440062 1
P200	380-363G	JACK,DIN 6046B 01S
P201	380-068E	JACK,PHONE UEJ CV 018
COIL		
L1004	6140VB0004B	COIL,CHOKE 26UH
L1005	6140VB0004B	COIL,CHOKE 26UH
L1006	6140VB0004B	COIL,CHOKE 26UH
L1007	6140VB0004B	COIL,CHOKE 26UH
L1200	6140VB0004B	COIL,CHOKE 26UH
L1203	6140VB0004B	COIL,CHOKE 26UH
L1209	6140VB0004B	COIL,CHOKE 26UH
L1213	6140VB0004B	COIL,CHOKE 26UH
L803	6140VB0022A	COIL,CHOKE CPS 0810 GET 22UH

LOCA. NO	PART NO	DESCRIPTION
L804	6140VB0022A	COIL,CHOKE CPS 0810 GET 22UH
L805	6140VB0022A	COIL,CHOKE CPS 0810 GET 22UH
L806	6140VB0022A	COIL,CHOKE CPS 0810 GET 22UH
RESISTOR		
AR1101	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR1102	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR1103	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR1104	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR1105	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR1106	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR500	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR503	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR507	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR508	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR509	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR512	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR513	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR520	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR521	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR522	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR523	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR524	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR525	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR600	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR600	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR601	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR601	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR602	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR602	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR603	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR603	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR604	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR605	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR606	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR607	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR608	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR609	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR610	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR611	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR612	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR613	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR614	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR615	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR616	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR617	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR618	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR700	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR701	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR701	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR702	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%

REPLACEMENT PARTS LIST

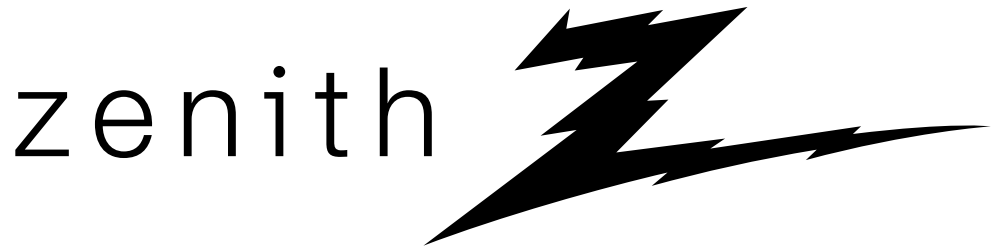
LOCA. NO	PART NO	DESCRIPTION
AR703	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR707	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR708	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR709	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR710	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR711	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR712	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR713	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR714	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR715	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR717	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR718	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR719	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
R801	0RKZVTA001L	1.0M OHM 1/2 W 5%
R802	0RKZVTA001L	1.0M OHM 1/2 W 5%
SWITCH		
SW001	140-315A	SWITCH,TACT SKHV17910B 12V
SW002	140-315A	SWITCH,TACT SKHV17910B 12V
SW003	140-315A	SWITCH,TACT SKHV17910B 12V
SW004	140-315A	SWITCH,TACT SKHV17910B 12V
SW005	140-315A	SWITCH,TACT SKHV17910B 12V
SW006	140-315A	SWITCH,TACT SKHV17910B 12V
SW700	140-313B	SWITCH,TACT 2LEAD 160G(TA)
SW800	140-275A	SWITCH,PUSH PUSH JDPB21SA 30V
SW800	6600VM2006A	SWITCH,PUSH SDDF3PATP011 250V
FILTER & CRYSTAL		
L100	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L100	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L1000	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L1002	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L1008	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L1009	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L101	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L101	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L1010	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L1011	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L1012	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L1013	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L1014	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L1015	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L1016	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L1017	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L1018	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L1019	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L102	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L102	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L1020	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L1021	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L103	6210VC0006A	FILTER,EMC FBMH3216 HM501NT

LOCA. NO	PART NO	DESCRIPTION
L103	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L104	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L105	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L105	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L106	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L107	6200JB8010L	FILTER,EMC MLB 201209 1000L N2
L108	6200JB8010L	FILTER,EMC MLB 201209 1000L N2
L1102	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L1206	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L1207	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L1210	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L1211	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L1216	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L1217	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L1300	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L1302	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L1307	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L1310	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L1311	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L1312	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L1313	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L1314	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L1315	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L1316	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L1317	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L1318	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L1321	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L1322	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L1325	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L1326	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L1327	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L1328	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L1329	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L1330	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L1331	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L1332	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L1333	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L200	6200JB8013L	FILTER,EMC BEAD 60 OHM TB201209U060
L201	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L202	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L203	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L204	6210VC0005A	FILTER,EMC BK2125 HS 750
L204	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L205	6210VC0005A	FILTER,EMC BK2125 HS 750
L205	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L206	6210VC0005A	FILTER,EMC BK2125 HS 750
L206	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L207	6210VC0005A	FILTER,EMC BK2125 HS 750
L207	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L208	6210VC0005A	FILTER,EMC BK2125 HS 750
L208	6210VC0006A	FILTER,EMC FBMH3216 HM501NT

REPLACEMENT PARTS LIST

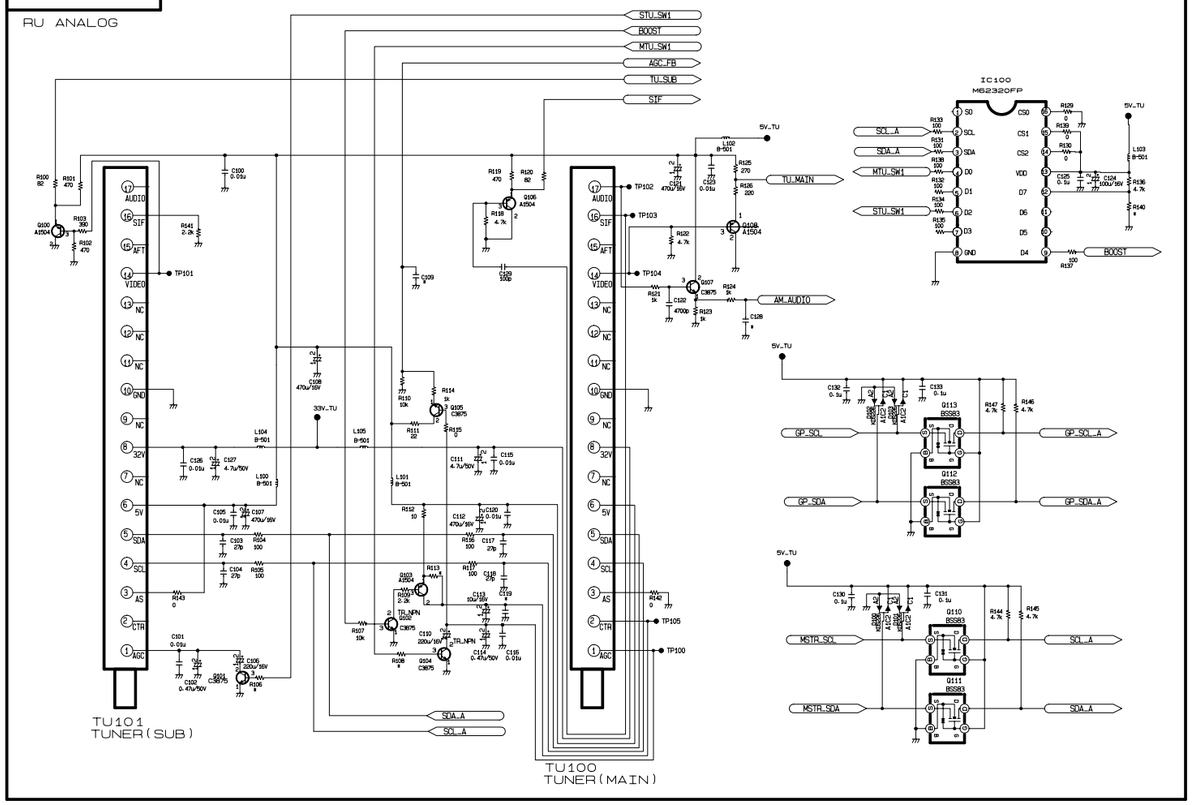
LOCA. NO	PART NO	DESCRIPTION
L209	6210VC0005A	FILTER,EMC BK2125 HS 750
L210	6200JB8010L	FILTER,EMC MLB 201209 1000L N2
L211	6200JB8010L	FILTER,EMC MLB 201209 1000L N2
L212	6200JB8010L	FILTER,EMC MLB 201209 1000L N2
L213	6200JB8010L	FILTER,EMC MLB 201209 1000L N2
L214	6200JB8010L	FILTER,EMC MLB 201209 1000L N2
L214	6200JB8010L	FILTER,EMC MLB 201209 1000L N2
L215	6200JB8010L	FILTER,EMC MLB 201209 1000L N2
L215	6200JB8010L	FILTER,EMC MLB 201209 1000L N2
L216	6200JB8010L	FILTER,EMC MLB 201209 1000L N2
L216	6200JB8010L	FILTER,EMC MLB 201209 1000L N2
L217	6200JB8010L	FILTER,EMC MLB 201209 1000L N2
L300	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L301	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L302	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L303	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L304	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L305	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L400	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L400	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L401	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L401	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L402	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L403	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L404	6210VC0005A	FILTER,EMC BK2125 HS 750
L405	6210VC0005A	FILTER,EMC BK2125 HS 750
L406	6210VC0005A	FILTER,EMC BK2125 HS 750
L502	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L503	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L609	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L610	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L700	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L800	6210VC0006A	FILTER,EMC FBMH3216 HM501NT
L807	6200JB8010L	FILTER,EMC MLB 201209 1000L N2
L808	6200JB8010L	FILTER,EMC MLB 201209 1000L N2
LT1100	6200C000010	FILTER,B.P. H354LAI K5202
LT1101	6200C000010	FILTER,B.P. H354LAI K5202
LT1102	6200C000009	FILTER,B.P. H354LAI K5225
LT1103	6200C000009	FILTER,B.P. H354LAI K5225
R102	6200JB8010L	FILTER,EMC MLB 201209 1000L N2
R103	6200JB8010L	FILTER,EMC MLB 201209 1000L N2
R106	6200JB8010L	FILTER,EMC MLB 201209 1000L N2
R107	6200JB8010L	FILTER,EMC MLB 201209 1000L N2
R108	6200JB8010L	FILTER,EMC MLB 201209 1000L N2
X1100	6212AB2015B	RESONATOR,CRYSTAL HC 49/SM5H 20MHZ
X500	6202VDT002D	RESONATOR,CRYSTAL SX 1SMD 8.0MHZ
X600	6202VDB007B	RESONATOR,CRYSTAL HC49U 20.250MHZ
X600	6202VDT002J	RESONATOR,CRYSTAL SX 13.500000MHZ
X700	6202VDB007B	RESONATOR,CRYSTAL HC49U 20.250MHZ
X700	6202VDT002B	RESONATOR,CRYSTAL SX SC14.3MHZ
X800	156-A02M	RESONATOR,CRYSTAL HC49U 18.432MHZ

LOCA. NO	PART NO	DESCRIPTION
MISCELLANEOUS		
F801	0FS1002B53K	FUSE,SLOW BLOW 10000MA 250V
F801A	430-813A	HOLDER,FUSE NON MC994C PAPING
F802A	430-813A	HOLDER,FUSE NON MC994C PAPING
P100	6630VGA001C	CONNECTOR,D SUB 15PIN 2.29MM
P200	6630VGA004B	CONNECTOR,D SUB 9P 2.77MM
TU100	6700NF0010A	TUNER,TAUM H501P
TU101	6700NF0010B	TUNER,TAFM H502P
ACCESSORIES		
A1	3828VA0470E	MANUAL,OWNERS RU 42PX20 ZENITH
A2	6710V00126Z	REMOTE CONTROLLER,RF043A
A3	6410VUH005A	POWER CORD,PS204 125V/13A 2800MM
A4	6850J00002B	CABLE,DVI I TO DVI I UL20276 3000MM
A5	6850J00004A	CABLE,DVI LVDS UL20276 AWG30 500MM
A6	6866VA9001B	CONNECTOR,DSUB 2990 9C UL 1161
A7	4810V00509A	BRACKET,WALL

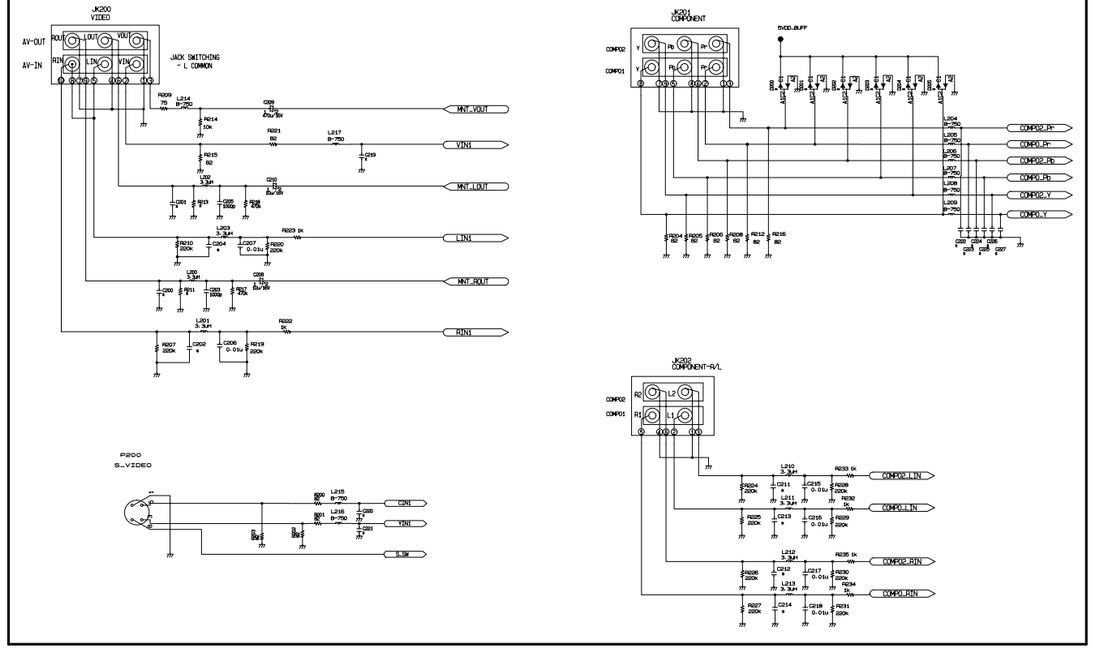

zenith

#1 2 TUNER

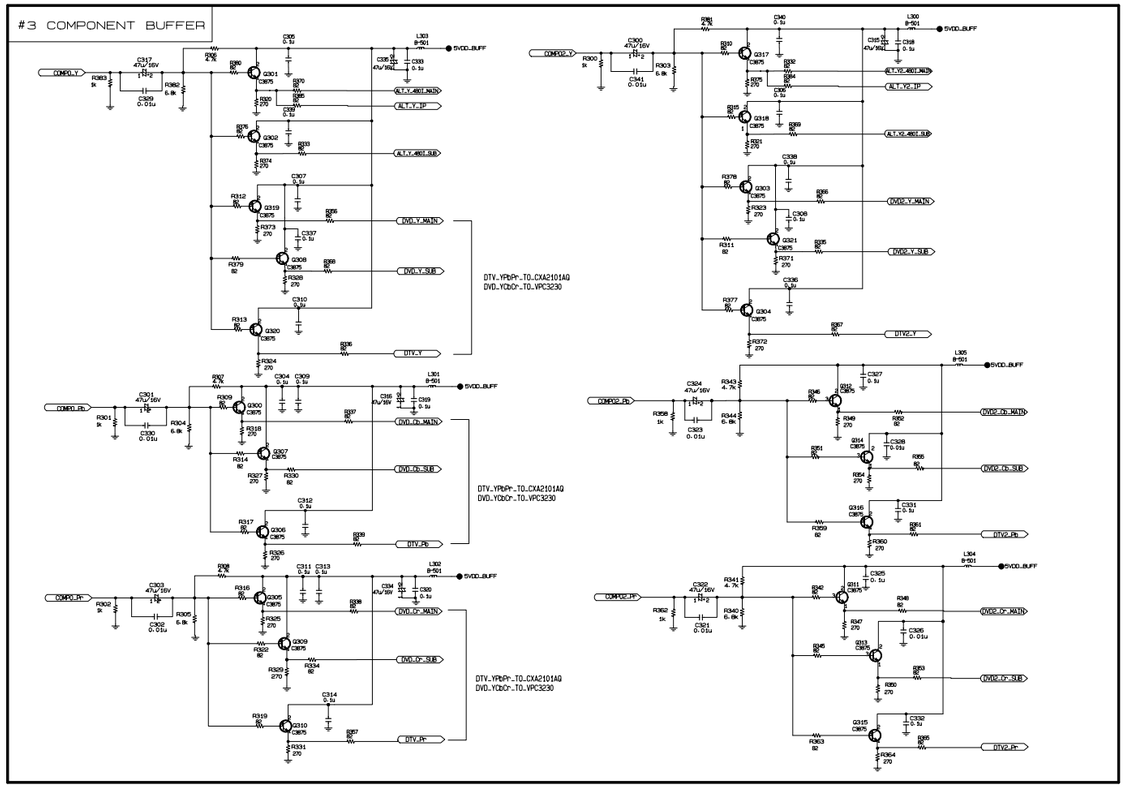
RU ANALOG



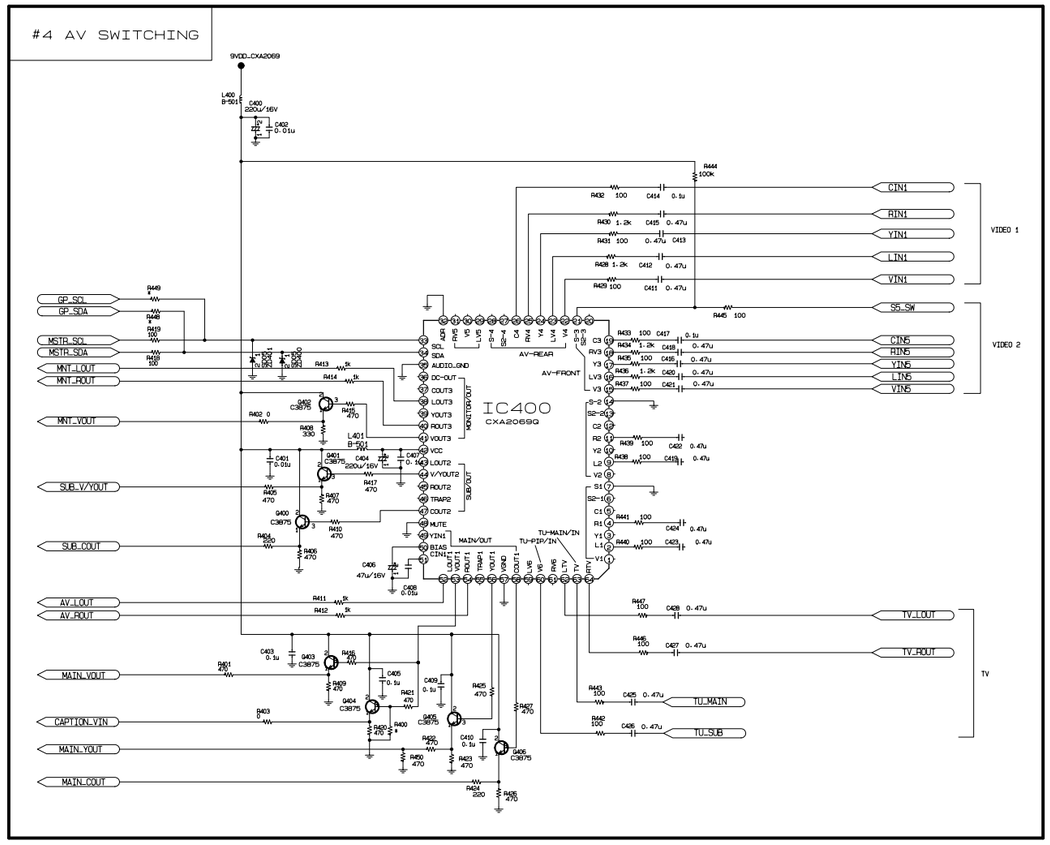
#2 VIDEO/COMPONENT INPUT



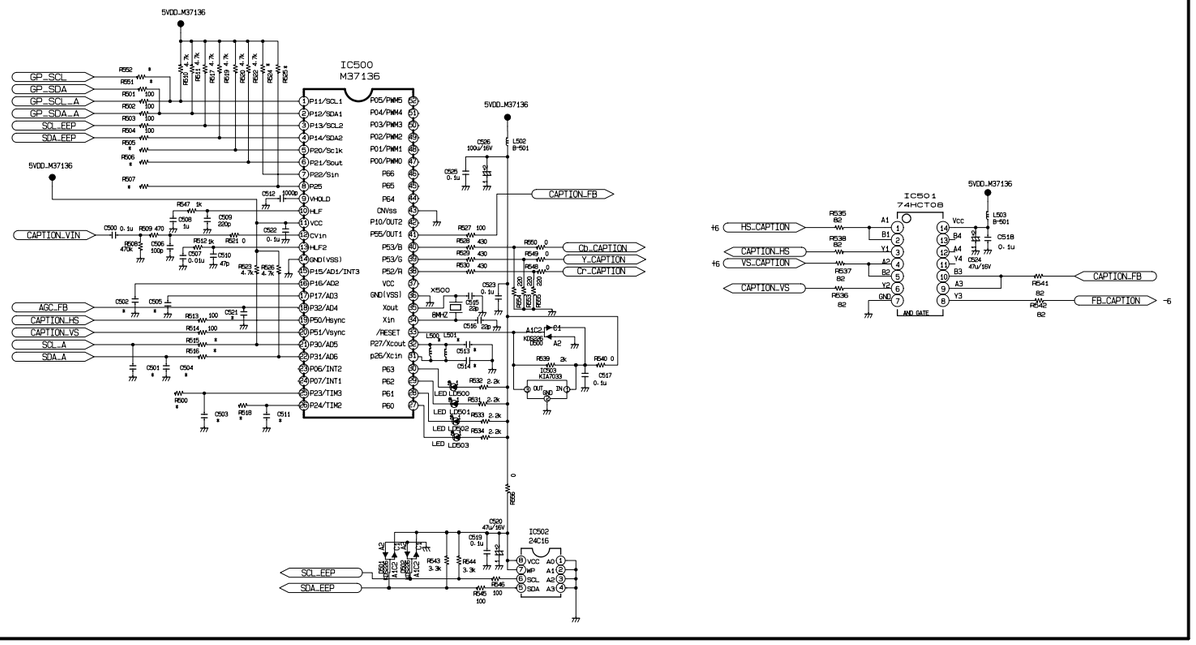
#3 COMPONENT BUFFER



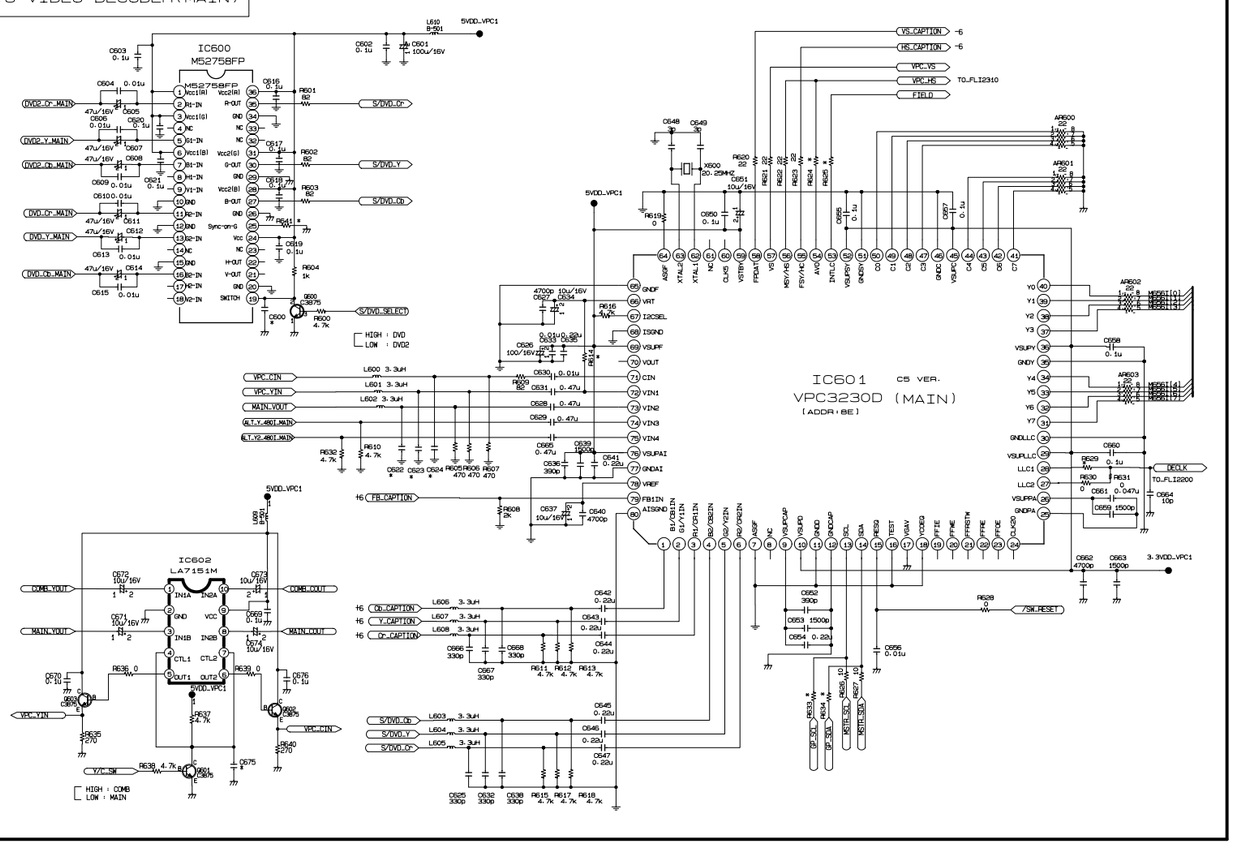
#4 AV SWITCHING



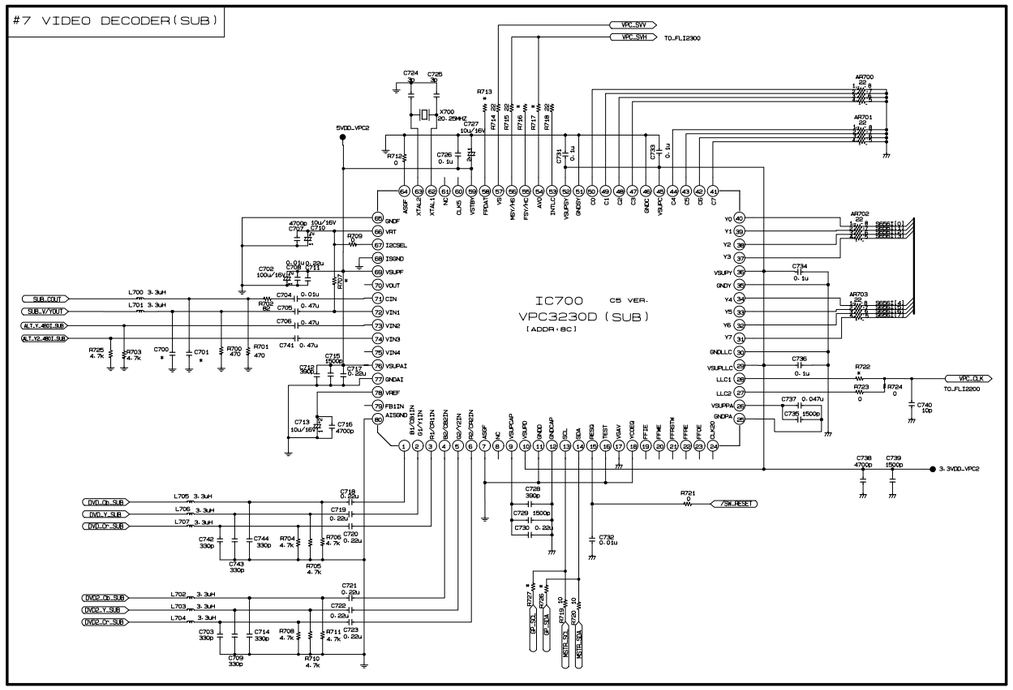
#5 Caption Decoder



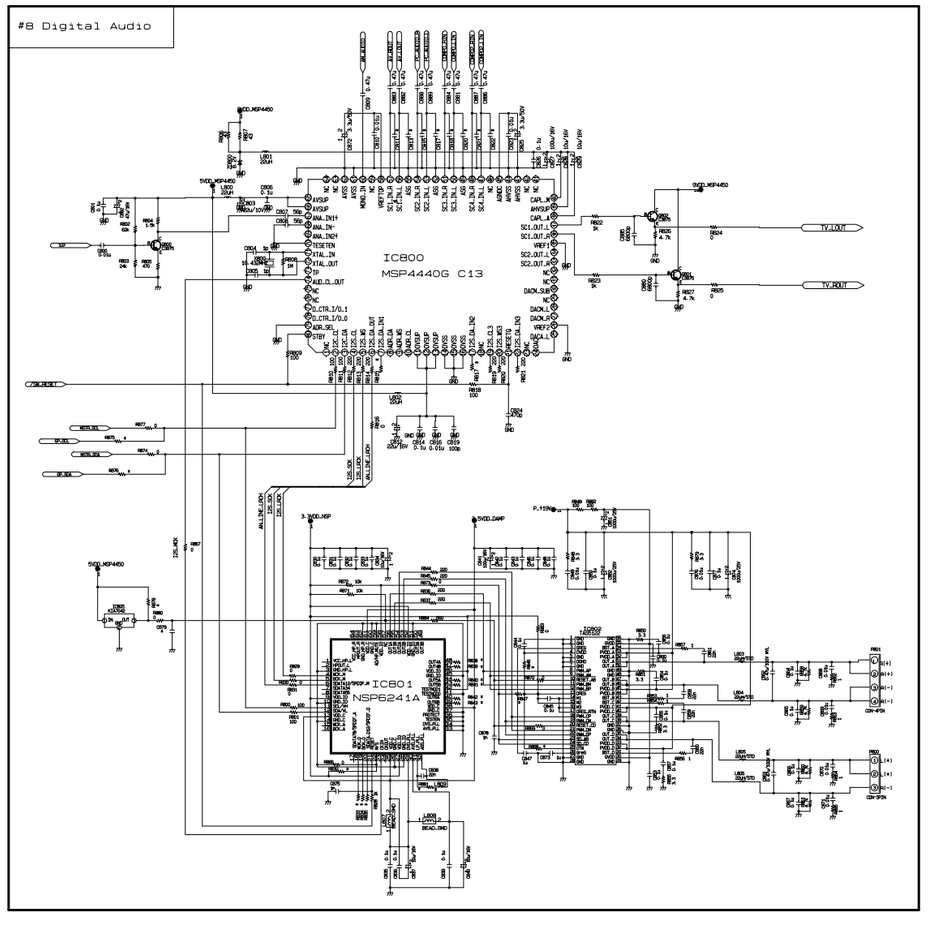
#6 VIDEO DECODER(MAIN)



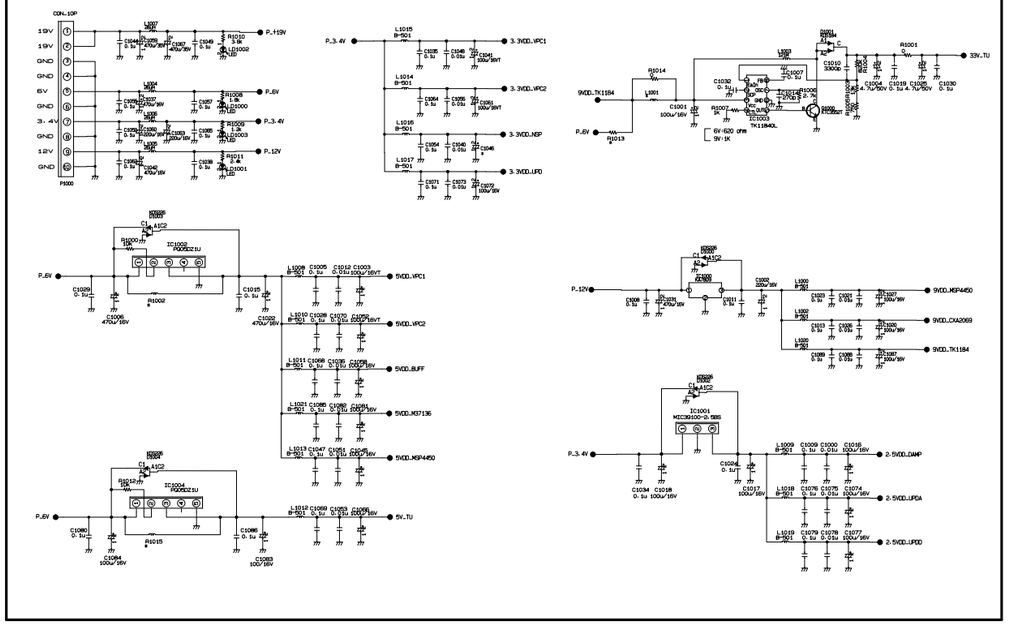
#7 VIDEO DECODER(SUB)



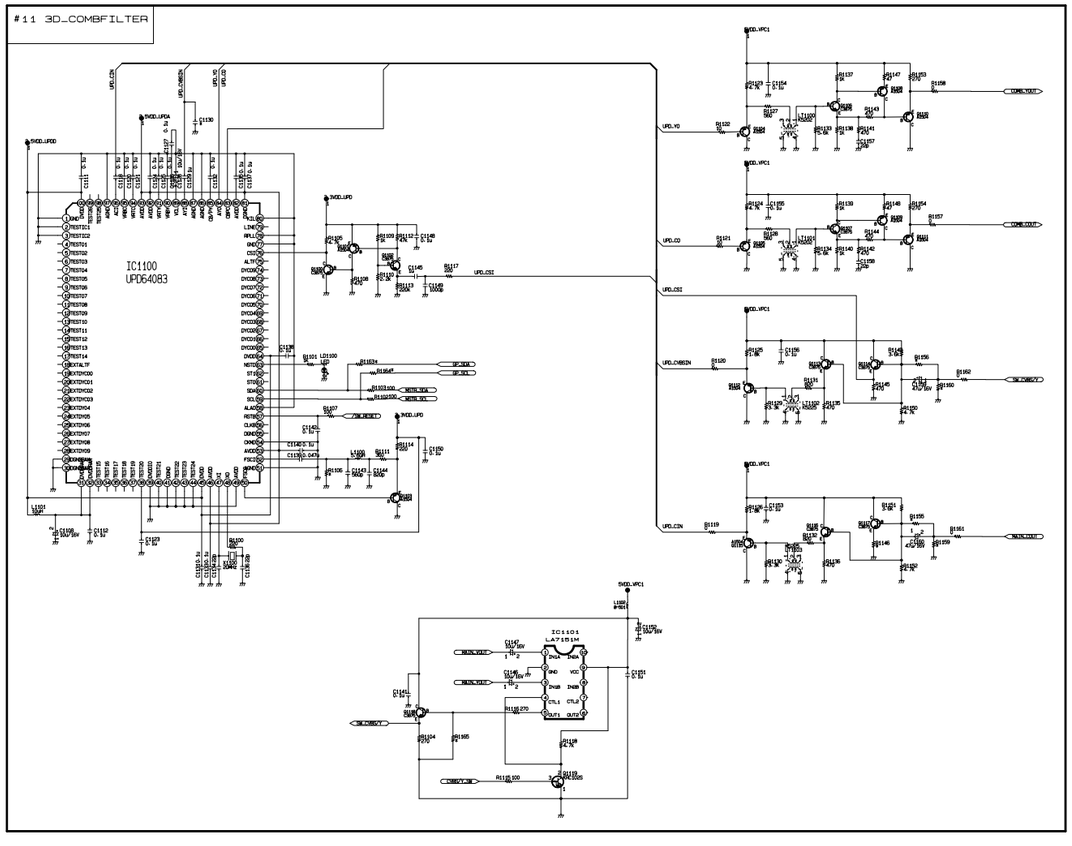
#8 Digital Audio



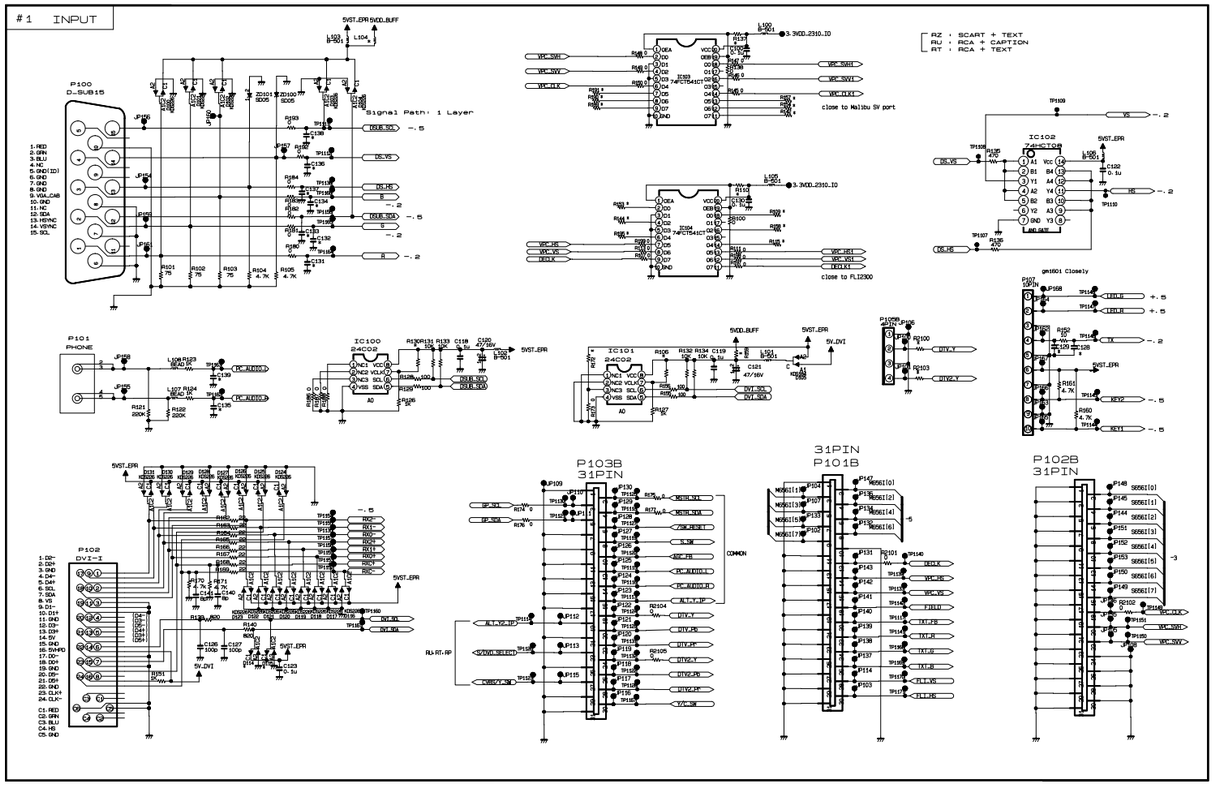
#10 POWER



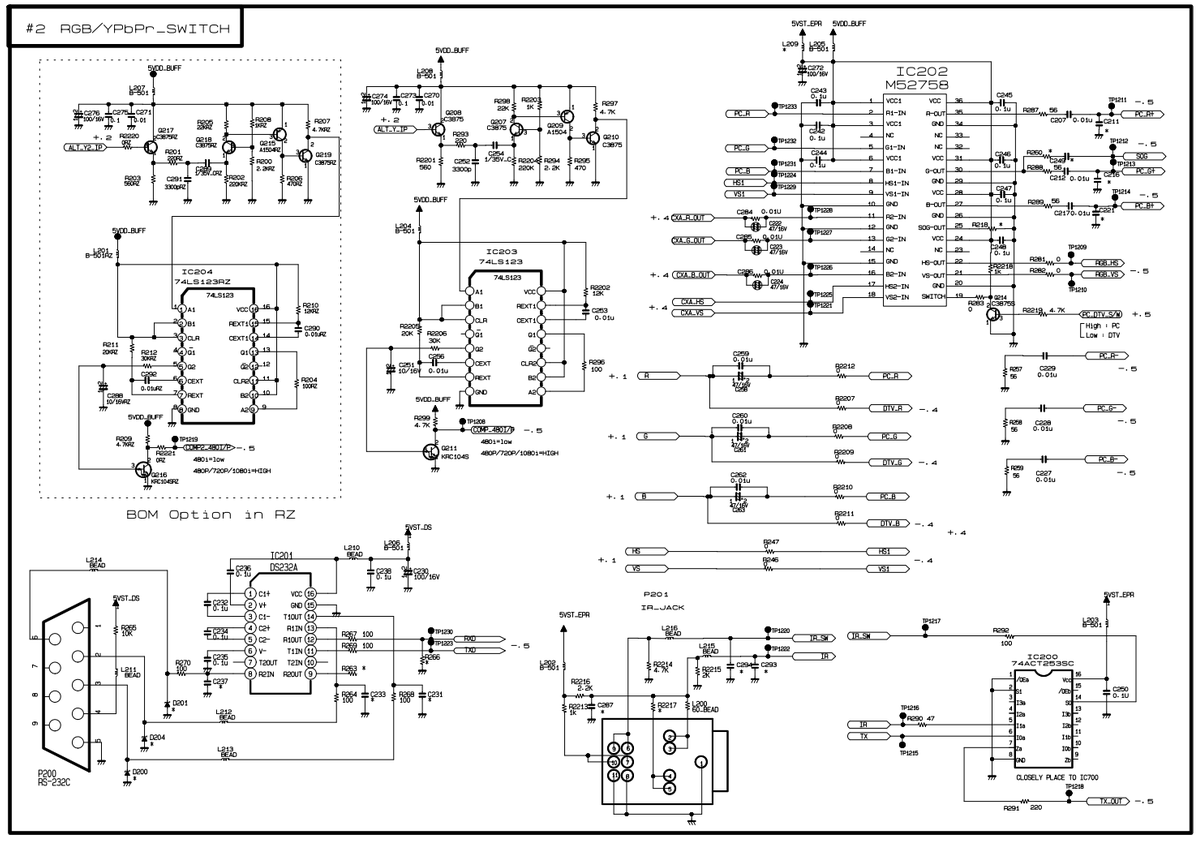
#11 3D_COMBFILTER



#1 INPUT



#2 RGB/YPbPr_SWITCH



#3 S2300

IC600
S2310 S2300
BD VERSION
Address : D0

DEVICE	MCU# ADDRESS	Read address
00	D0H	D1H
01	D2H	D3H
10	D4H	D5H
11	D6H	D7H

IC601
K4S643232C

#4 CXA2101AQ

IC401
CXA2101AQ

IC402
74HCT08FELRP

for text

#5 SCALER(gm1601)

IC700
gm1601.left

IC700
gm1601.bottom

IC700
gm1601.top

IC700
gm1601.right

Same path lenght
between gm1601 and DDR

Closely located gm1601

GND Separate!

I2C ADDRESS: A2H and A3H

IC701
24LC32

#6 DDR RAM/F_ROM

IC800
HY5DU283222A
SDRAM 128MB

IC801
AM29LV160(1MByte)

1M Memory-RB10-RB14-RB16 OPEN & RB30-RB31 10Kohm
512K Memory-RB10-RB16 10Kohm & RB27-RB29-RB32 SHORT

BOOTSTRAP HEADER
OPEN = 1
SHUNTED = 0

DCMADDR	
10-LOW	Use TCLK!
11-LOW	set all display output to "0"!
12-LOW	disable serial interface debug!
13-LOW	
14-LOW	
15-LOW	
16-HIGH	use crystal!
17-LOW	
18-HIGH/LOW	16bit bus with OCM access external ROM!
19-LOW	

7 IEP

IC500

IEP

#9 POWER

11 LVDS RECEIVER

#8 OUTPUT(TMDS)

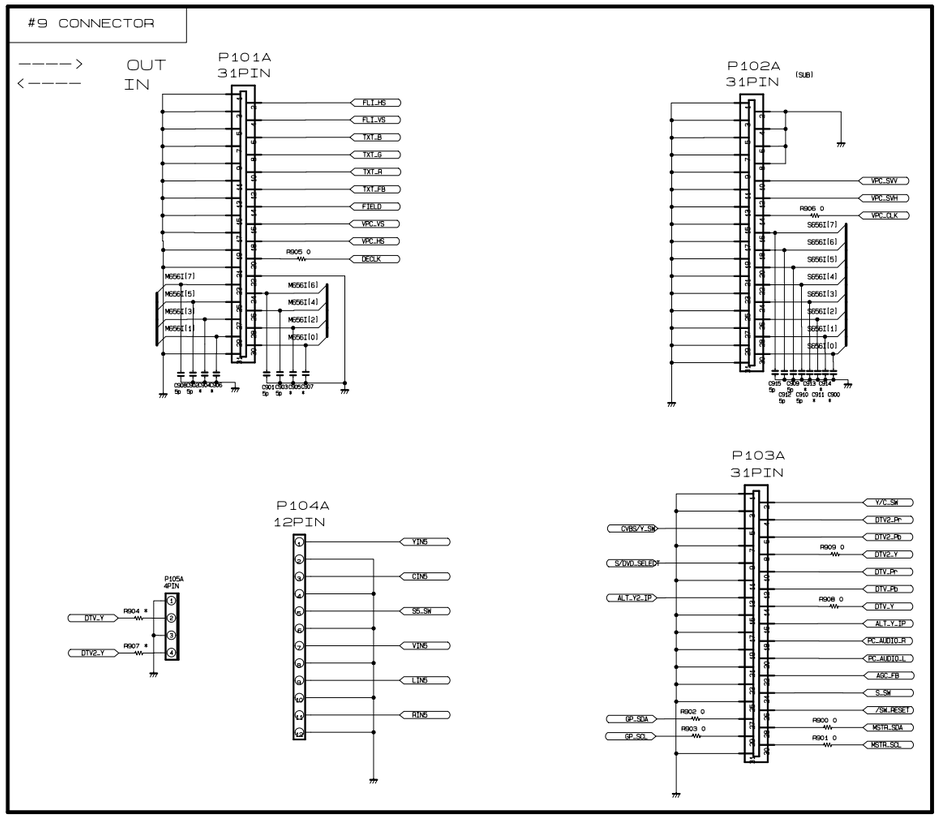
P900

IC900

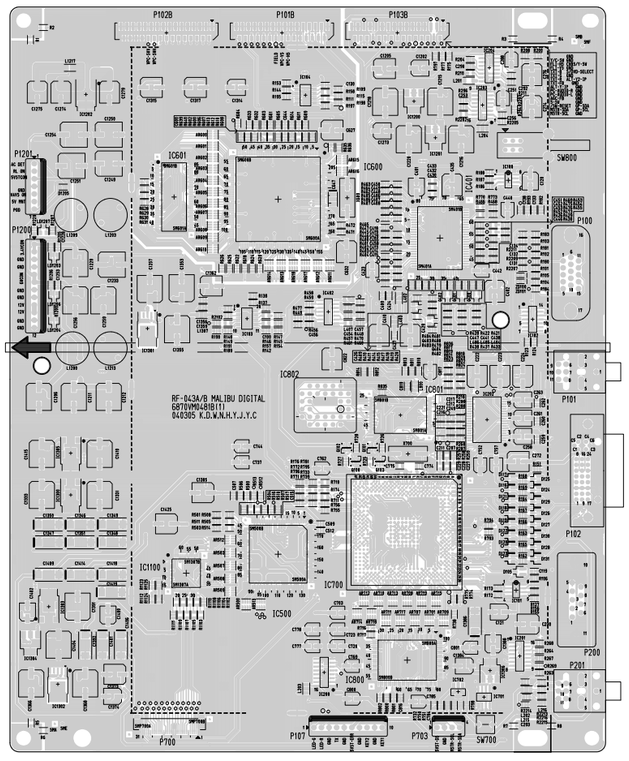
MAIN (TOP)

#10 POWER

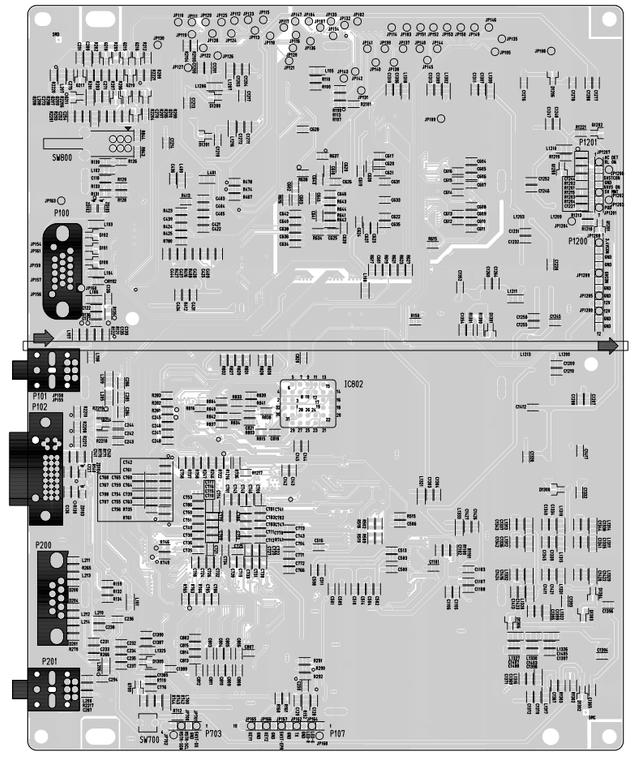
PRINTED CIRCUIT BOARD



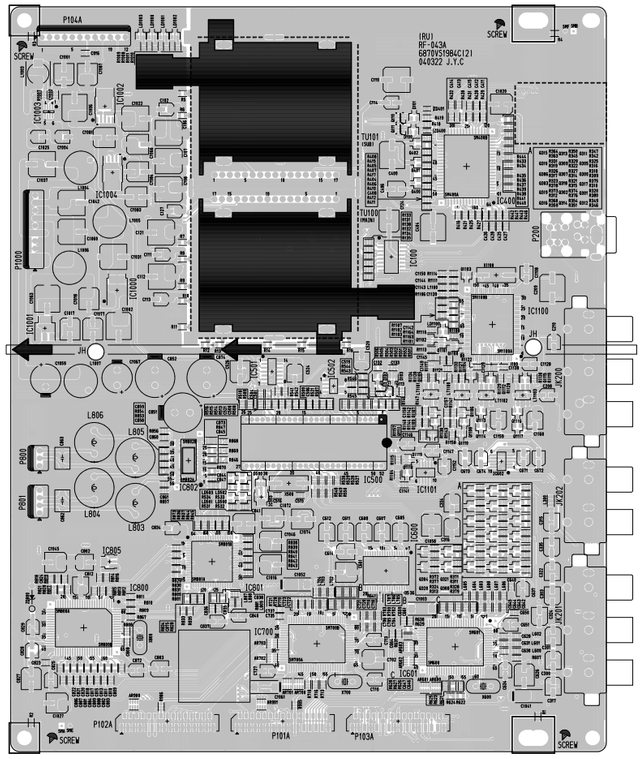
MAIN (TOP)



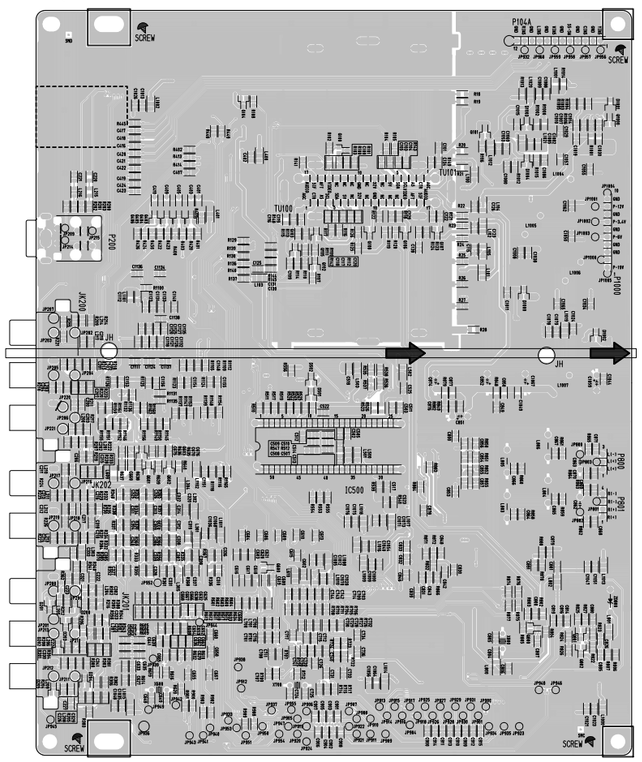
MAIN (BOTTOM)



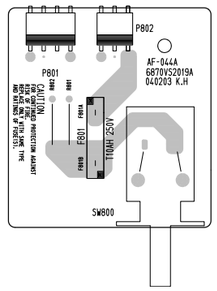
TUNER(TOP)



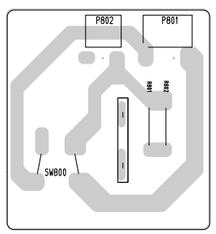
TUNER(BOTTOM)



POWER S/W(TOP)



POWER S/W(BOTTOM)



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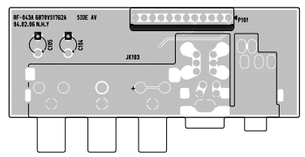

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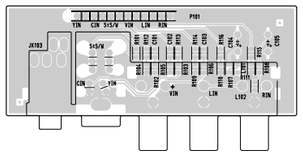

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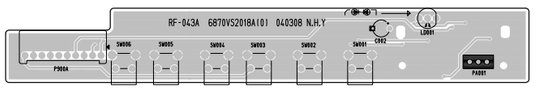

CONTROL(BOTTOM)